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| 1. Record Nr. | UNISA996214108603316 |
| Titolo | Australian geographer |
| Pubbl/distr/stampa | Sydney, : [Geographical Society of New South Wales], 1928-1929 Sydney, : Science House Carfax International Publishers [Abingdon], : Routledge, Taylor & Francis Group |
| ISSN | 1465-3311 |
| Disciplina | 919.42 |
| Soggetti | Geography Géographie 74.00 (human) geography: general Travel Geografie Zeitschrift Periodicals. Australia Description and travel Periodicals Australie Descriptions et voyages Périodiques Australia Australien |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Periodico |
| Note generali | Refereed/Peer-reviewed |

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| 2. Record Nr. | UNINA9910557114003321 |
| Autore | Leimkuhler Silke |
| Titolo | Transition Metals in Catalysis : The Functional Relationship of Fe-S Clusters and Molybdenum or Tungsten Cofactor-Containing Enzyme Systems |
| Pubbl/distr/stampa | Basel, Switzerland, : MDPI - Multidisciplinary Digital Publishing Institute, 2021 |
| Descrizione fisica | 1 online resource (186 p.) |
| Soggetti | Biology, life sciences Research & information: general |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Sommario/riassunto | <p>Iron-sulfur (FeS) centers are essential protein cofactors in all forms of life. They are involved in many key biological processes. In particular, Fe-S centers not only serve as enzyme cofactors in catalysis and electron transfer, they are also indispensable for the biosynthesis of complex metal-containing cofactors. Among these cofactors are the molybdenum (Moco) and tungsten (Wco) cofactors. Both Moco/Wco biosynthesis and Fe-S cluster assembly are highly conserved among all kingdoms of life. After formation, Fe-S clusters are transferred to carrier proteins, which insert them into recipient apo-proteins. Moco/Wco cofactors are composed of a tricyclic pterin compound, with the metal coordinated to its unique dithiolene group. Moco/Wco biosynthesis starts with an Fe-S cluster-dependent step involving radical/S-adenosylmethionine (SAM) chemistry. The current lack of knowledge of the connection of the assembly/biosynthesis of complex metal-containing cofactors is due to the sheer complexity of their synthesis with regard to both the (genetic) regulation and (chemical) metal center assembly. Studies on these metal-cofactors/cofactor-containing enzymes are important for understanding fundamental cellular processes. They will also provide a comprehensive view of the complex biosynthesis and the catalytic mechanism of metalloenzymes</p> |

that underlie metal-related human diseases.
