

| | |
|-------------------------|---|
| 1. Record Nr. | UNINA9911019930703321 |
| Titolo | Cyanide compounds in biology |
| Pubbl/distr/stampa | Chichester, U.K. ; ; New York, : J. Wiley, 1988 |
| ISBN | 9786612347573 9781282347571 1282347578 9780470513712 0470513713 9780470513729 0470513721 |
| Descrizione fisica | 1 online resource (274 p.) |
| Collana | Ciba Foundation symposium ; ; 140 |
| Disciplina | 574.19/214 |
| Soggetti | Cyanides - Physiological effect Cyanides - Metabolism Cyanides - Metabolic detoxification |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | "A Wiley-Interscience publication." "Symposium on Cyanide compounds in biology, held at the Ciba Foundation, London, 15-17 March 1988"--P. v. |
| Nota di bibliografia | Includes bibliographies and indexes. |
| Nota di contenuto | CYANIDE COMPOUNDS IN BIOLOGY; Contents; Participants; Introduction; Cyanide utilization and degradation by microorganisms; Microbial hydrolysis of organic nitriles and amides; The industrial potential of microbial nitrile biochemistry; Cyanogenic glucosides: the biosynthetic pathway and the enzyme system involved; Localization and catabolism of cyanogenic glycosides; Detoxification of cyanide by plants and hormone action; The molecular biology of cyanogenesis; Cyanogenesis and the role of cyanogenic compounds in insects; Cyanogenesis in animal-plant interactions; General discussion Determination of cyanide and cyanogenic compounds systems in biologicalMammalian cyanide detoxification with sulphane sulphur; Nutritional and biochemical factors influencing the biological effects of cyanide; The mechanism of cyanide intoxication and its antagonism; Final general discussion; Chairman's summary; Index of Contributors; |

Subject Index

Sommario/riassunto

Comprises the proceedings of a symposium held at the Ciba Foundation, March 1988. Contributors present an international, interdisciplinary approach to the biology and biological chemistry of cyanide and related compounds. Addressed are the microbial metabolism of HCN and organic nitrile compounds, cyanogenesis in higher plants, qualitative and quantitative methods of analysis of cyanogenic glycosides, and detoxification of hydrogen cyanide by animals.
