



# Biosynthesis and the integration of cell metabolism /

Cartledge, T. G.

Butterworth-Heinemann,  
1992

[Examination Questions](#) [Electronic books](#)

Monografía

## Biosynthesis & Integration of Cell Metabolism

<https://rebiunoda.pro.baratznet.cloud:28443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMjYwMTgxOTQ>

---

**Título:** Biosynthesis and the integration of cell metabolism [authors, T.G. Cartledge, R.O. Jenkins, C.K. Leach ; editor, G.D. Weston]

**Editorial:** Oxford Boston Butterworth-Heinemann 1992

**Descripción física:** 1 online resource (x, 251 pages) illustrations

**Tipo Audiovisual:** Cells

**Mención de serie:** BIOTOL, Biotechnology by Open Learning

**Nota general:** "Published on behalf of Open Universiteit and Thames Polytechnic." Includes index

**Contenido:** ""Front Cover""; ""Biosynthesis and the Integration of Cell Metabolism""; ""Copyright Page"";  
""Table of Contents""; ""The Biotol Project""; ""Contributors""; ""How to use an open learning text""; ""Preface"";  
""Chapter 1. Introduction""; ""1.1 Three Biotol texts on cells' metabolism""; ""1.2 The fuelling reactions are  
diverse""; ""1.3 Biosynthetic processes are similar in all systems""; ""1.4 Precursor molecules for biosynthesis"";  
""1.5 The arrangements of chapters""; ""Chapter 2. Uptake of Nutrients""; ""Introduction""; ""2.1 The nutritional  
requirements of cells"" ""2.2 Membranes as permeability barriers""""2.3 The distinction between passive diffusion  
and carrier-mediated transport""; ""2.4 Passive diffusion through protein channels."""; ""2.5 Carrier-mediated  
transport""; ""2.6 Passive transport systems."""; ""2.7 Active transport systems""; ""2.8 Group translocation across  
membranes""; ""2.9 Binding proteins""; ""2.10 The utilisation of substrates that cannot pass through the  
membrane""; ""2.11 Experimental approaches to studying transport systems""; ""Chapter 3. Nitrogen and sulphur  
assimilation""; ""Introduction"" ""3.1 The requirement for nitrogen and sulphur""""3.2 The assimilation of  
sulphate""; ""3.3 The assimilation of ammonia""; ""3.4 The assimilation of nitrate""; ""3.5 The assimilation of  
molecular nitrogen""; ""3.6 The importance of nitrogen fixation in nature""; ""Summary and objectives"";  
""Chapter 4. Amino acid and nucleotide biosynthesis""; ""Introduction""; ""4.1 A brief review of amino acids; their  
general formula and importance in the diet""; ""4.2 Derivation of biosynthetic precursors of amino acids""; ""4.3  
The assimilation of nitrogen""; ""4.4 The biosynthesis of amino acids"" ""4.5 The recycling and biosynthesis of  
nucleic acid precursors""""4.6 The metabolic links between amino acid biosynthesis and the biosynthesis of purines

and pyrimidines"; ""Summary and objectives"; ""Chapter 5. The biosynthesis of lipids"; ""Introduction""; ""5.1 The classes of lipids"; ""5.2 The function and occurrence of lipids"; ""5.3 Biosynthesis versus degradation of fatty acids"; ""5.4 Provision of precursors for fatty acid biosynthesis"; ""5.5 The biosynthesis of fatty acids"; ""5.6 Biosynthesis of triglycerides"; ""5.7 Biosynthesis of phospholipids"" ""5.8 Biosynthesis of lipids from isoprene derivatives""""5.9 Microbial biotransformations (bioconversions) of steroids""; ""Summary and objectives""; ""Chapter 6. The biosynthesis of carbohydrates""; ""Introduction""; ""6.1 The occurrence of carbohydrates in living systems""; ""6.2 The biosynthesis of glucose""; ""6.3 The biosynthesis of hexoses, pentoses and tetroses""; ""6.4 The biosynthesis of disaccharides, oligosaccharides and polysaccharides""; ""6.5 The commercial importance of polysaccharides of micro-organisms""; ""Summary and objectives""

**Restricciones de acceso:** Use copy. Restrictions unspecified. MiAaHDL star

**Detalles del sistema:** Master and use copy. Digital master created according to Benchmark for Faithful Digital Reproductions of Monographs and Serials, Version 1. Digital Library Federation, December 2002. <http://purl.oclc.org/DLF/benchrepro0212> MiAaHDL

**Nota de acción:** digitized 2010 HathiTrust Digital Library committed to preserve MiAaHDL pda

**Copyright/Depósito Legal:** 301020881 900885880 974617063 988555331 1100924562 1165404046

**ISBN:** 9781483297323 electronic bk.) 1483297322 electronic bk.) 0750615060 9780750615068

**Materia:** Biosynthesis Cell metabolism Cells- metabolism Cellules- Métabolisme Biosynthèse SCIENCE- Life Sciences- Biology Biosynthesis Cell metabolism Biosynthese Stofwisseling Cell metabolism Biotechnologie Cellules Cytologie Metabolisme Cellules- Metabolisme intermédiaire

**Autores:** Jenkins, R. O. Leach, C. K. Weston, G. D.

**Entidades:** BIOTOL (Project) Open Universiteit (Heerlen, Netherlands) Thames Polytechnic

**Enlace a formato físico adicional:** Print version Cartledge, T.G. Biosynthesis and the integration of cell metabolism. Oxford ; Boston : Butterworth-Heinemann, 1992 (DLC) 92192787 (OCLOC)27105542

**Punto acceso adicional serie-Título:** Biotechnology by Open Learning (Series)

---

## Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- [informa@baratz.es](mailto:informa@baratz.es)