

# Introducción A La Bioquímica

**Michael A. Lieberman, Rick E. Ricer**

**INTRODUCCIÓN AL ESTUDIO DE LA BIOQUÍMICA** Aida Macías Alvia, Janeth Reina Hurtado Astudillo, Dolores Mirella Cedeño Holguín, Franklin Antonio Vite Solórzano, María Magaly Scott Álava, Patricio Alfredo Vallejo Valdivieso, María Jacqueline Macías Alvia, Jhonny Willian Santana Sornoza, María Jaritza Espinoza Macías, Sonia Patricia Ubillús Saltos, Shirley Ximena Arteaga Espinoza, Oscar Eduardo Torres Macías, José Manuel Pigüave Reyes, Leonardo Alfredo Mera Villamar, Dolores Isabel Chavarría Cedeño, Kevin Joseph Intriago Sánchez, 2018-10-15 La Bioquímica constituye una disciplina que junto con la Química Orgánica permite o facilita sentar las bases para la comprensión de los fenómenos que ocurren en los microorganismos y su papel en los procesos bioquímicos.

*Biochemistry* Trudy McKee, James Robert McKee, 2014 This book is for readers who do not specialize in biochemistry but who require a strong grasp of biochemical principles. The goal of this book is to enrich the coverage of chemistry while better highlighting the biological context. Once concepts and problem-solving skills have been mastered, readers are prepared to tackle the complexities of science, modern life, and their chosen professions.

*Introducción a la Bioquímica* Ramírez Regalado, Víctor Manuel, Introducción a la bioquímica para bachilleratos tecnológicos es una obra que brinda las bases para que el estudiante conozca aspectos fundamentales a partir de la materia y la energía para reconocer la composición química de los sistemas vivos. Se divide en cinco unidades y abordan la totalidad de contenidos de la materia. La propuesta del autor para la obra está muy vinculada al entorno y cotidianidad de los estudiantes.

**Biomoléculas** Enrique Battaner Arias, 2013-05-30 Una de las cuestiones a las que responde la Bioquímica es a algo que siempre estuvo presente en las mentes inquisitivas: De qué estamos hechos, o más generalmente, De qué están hechos los seres vivos. Durante mucho tiempo, y siguiendo al filósofo Empédocles de Agrigento (siglo VI a.J.C.) se creyó que la materia viviente era una mezcla proporcionada de los cuatro elementos Agua, Aire, Fuego y Tierra. El gran médico Galeno de Pérgamo (s. II d.J.C.) propuso que estos elementos se materializaban en el ser humano en los cuatro humores: Flema, Bilis, Sangre y Bilis Negra (o Melancolía), respectivamente. El predominio natural de uno de ellos daba lugar a los temperamentos: Flemático (frío y húmedo), Colérico o Bilioso (cálido y seco), Sanguíneo (cálido y húmedo) y Melancólico (frío y seco). La enfermedad surgía del predominio o carencia de algunos de ellos (discrasia), y las enfermedades afectaban de distinta

manera según los temperamentos. Por ejemplo, en 1348 la Facultad de Medicina de la Sorbona intentó dar una explicación “científica” a la Gran Peste Negra que azotaba por entonces Europa. La peste bubónica, según la Facultad, estaría producida por materia corrompida (miasmas) transportada por el viento sur y que afectaría particularmente a temperamentos cálidos y húmedos (esto es, Sanguíneos); por ello, entre otras cosas, y a modo de prevención de la enfermedad, la Facultad prohibía los baños calientes, los alimentos cocidos y las relaciones sexuales, factores todos ellos que predisponían a contraer la peste por su naturaleza cálida y húmeda. De una u otra forma, este pensamiento persistió hasta la era científica, a partir del siglo XVII. Sin embargo, muchos de los términos ligados a los humores siguen estando presentes en el lenguaje habitual. Así, seguimos hablando de “momentos melancólicos”, de “tipos coléricos”, de “actitudes flemáticas”, etc. Ya a partir de Paracelso, en el siglo XVI, se buscaron otras vías para explicar la naturaleza de la materia viviente. Paracelso fue un gran médico que recogió asimismo la tradición alquímica, rechazando los elementos de Empédocles (y los humores de Galeno, por supuesto) y sustituyéndolos por los elementos que los alquimistas ya conocían (que son, en su mayor parte, los que conocemos en la actualidad como elementos químicos propiamente dichos). Paracelso proponía que el organismo humano estaba formado por estos elementos: azufre, mercurio, antimonio, hierro, etc., y que en ellos podían encontrarse las causas de las enfermedades y al mismo tiempo los remedios. Hoy nos puede parecer disparatada esta teoría, pero sin embargo fue una revolución en el pensamiento médico: la que supone que el organismo humano está formado por los mismos elementos que la materia inanimada. Surgió así lo que dio en conocerse como la “Yatroquímica”, línea de pensamiento médico que predominó en Europa en torno a los siglos XVI y XVII, y que partía de la idea (acertada, según lo que ahora sabemos) de que la Medicina podría llegar a explicarse en términos químicos. Pero la revolución auténtica vendría con la aplicación del método científico al estudio de los seres vivos. Un gran precursor fue William Harvey, médico inglés del siglo XVII, que demostró la circulación de la sangre (mayor y menor) a partir de medidas puramente mecánicas, como pesos y volúmenes, y demostrando que el corazón no era más que una bomba aspirante-impelente. Esta descripción ponía en su sitio el papel de los distintos órganos del cuerpo, no muy diferente que sus correlatos mecánicos o químicos. En lo que a nuestra pregunta respecta, la historia científica comienza con los estudios de Scheele sobre productos naturales (ácido cítrico, ácido úrico, ácido málico, etc.), los de Lavoisier sobre la respiración y los de Spallanzani sobre la digestión, todos ellos en el siglo XVIII, que precedieron al establecimiento por Dalton, ya en el siglo XIX, de la teoría atómica y molecular de la materia. Unos años más tarde, Wöhler, en Alemania, produjo por síntesis química urea, un producto natural presente en los seres vivos, con lo cual se demostraba que la materia viva no tenía nada de excepcional respecto a la inanimada. Wöhler trabajaba en el laboratorio de Justus von Liebig, quien desarrolló de forma sistemática los procedimientos de análisis elemental. Sus resultados nunca ofrecieron lugar a dudas: los seres vivos estaban formados por los mismos elementos que la materia inerte. Aplicando estos métodos, y en el mismo laboratorio, Mulder descubrió en 1832 las proteínas, postulando para las mismas un carácter macromolecular. De

puro revolucionario, este concepto no fue aceptado por la comunidad científica hasta finales del XIX. A partir de ahí, la historia prácticamente se confunde con el estudio de la Bioquímica tal cual la conocemos actualmente. Pero el punto importante es precisamente lo que venimos diciendo: La materia viva está compuesta por los mismos elementos que la materia inanimada. Nada hay en los seres vivos que los distinga del resto de la Naturaleza a ese respecto. ¿Y en cuanto a otras cuestiones? Antiguamente, se atribuía a la materia viva un principio vital, o fuerza vital (*vis vitalis*), que la distinguía de la materia inanimada o inerte. Incluso después de la muerte podían quedar residuos de fuerza vital en la materia muerta, lo que daba origen a formas de vida “inferiores” (gusanos, ranas, insectos, arañas, etc.), nacidas por “Generación Espontánea”. Incidentalmente, la rana que aparece sobre una calavera en la fachada de la Universidad de Salamanca, meramente representa, en la opinión del autor, la generación de “vida inferior” a partir de restos humanos; es decir, generación espontánea. Desde Aristóteles se había tomado como saber establecido la existencia de la Generación Espontánea. Médicos de gran prestigio en siglos posteriores, como Van Helmont (destacado representante de la Yatroquímica) en la Holanda del siglo XVII, llegaron a escribir recetas para producir ratones a partir de una camisa sucia. Sin embargo, un fuerte golpe a la Generación Espontánea tuvo lugar cuando el naturalista italiano Francesco Redi demostró en el siglo XVII que los gusanos que aparecen en la carne en descomposición son en realidad larvas de moscas. Si se impedía el acceso de las moscas a la carne muerta no se producían gusanos. Con el descubrimiento de los microorganismos se reavivó el interés sobre la Generación Espontánea, hasta que una serie de brillantes experimentos por parte de Louis Pasteur en el siglo XIX estableció la imposibilidad de la misma. Todo ser vivo tenía que proceder de otro ser vivo (*Omnium Ovum ex Ovo, Omnis Cellula e Cellula, Omnium Vivum e Vivo*; hoy día también se dice *Omnis DNA e DNA*). Ahora bien, hoy día consideramos que el Origen de la Vida tuvo lugar hace unos 3800 millones de años a partir de procesos estrictamente naturales, y que quizá puedan llegar a reproducirse *in vitro*. El interés por el Origen de la Vida nace precisamente de nuestra línea de pensamiento: que la vida es un fenómeno natural, sin ninguna connotación excepcional o menos aún, sobrenatural. En el Origen de la Vida hay que buscar asimismo el Origen de la Célula. Establecida de esta forma la no-excepcionalidad de los seres vivos respecto a la materia común y corriente, pasaremos en este curso al estudio de la Bioquímica. Tradicionalmente se comienza por el estudio descriptivo de las Biomoléculas, y así lo haremos. Que los seres vivos no sean nada excepcional desde el punto de vista físico-químico no está reñido con el hecho de que algunas de sus características sean específicas. Y por ello algunos capítulos de la Química están más relacionados con la Bioquímica que otros. Por ejemplo, una cuestión clave es que las moléculas orgánicas que constituyen lo que llamamos Biomoléculas son en su mayor parte solubles en agua. Otra, la gran importancia que tienen entre las Biomoléculas los compuestos de carbono (de ahí el nombre de “Química Orgánica” que tradicionalmente se ha dado al estudio de los compuestos de carbono, aun cuando la Bioquímica sea una ciencia perfectamente diferenciada de aquélla). También es notoria la importancia que en los seres vivos revisten las llamadas “interacciones débiles”, así como la de los

equilibrios ácido-base. Todo ello justifica el pequeño repaso, o recuerdo físico-químico que vamos a hacer en esta introducción. Estudiaremos conceptos que seguramente ya conocemos, pero preferentemente desde el punto de vista de la Bioquímica, o desde la óptica de los seres vivos.

**Clinical Chemistry** William J. Marshall, Stephen K. Bangert, Márta Lapsley, 2012-04-25 Clinical Chemistry considers what happens to the body's chemistry when affected by disease. Each chapter covers the relevant basic science and effectively applies this to clinical practice. It includes discussion on diagnostic techniques and patient management and makes regular use of case histories to emphasise clinical relevance, summarise chapter key points and to provide a useful starting point for examination revision. The clear and engaging writing style appreciated by generations of readers has been retained in this new (eighth) edition, while the content has been thoroughly updated throughout. The approach and scope of this trusted text makes it ideal for integrated medical curricula for medical training and for students and practitioners of clinical and biomedical science. Additional (electronic) self-assessment material, completes this superb learning package. Bonus self-assessment materials - interactive clinical cases and two tier level MCQs ('standard' and 'advanced') New introductory chapter on basic biochemistry - including solutions, solutes, ionisation, pH, buffers, amino acids, peptides and proteins, enzyme activity, including kinetic properties, DNA structure 'Light bulb' sections give practical advice and clarify difficult concepts or potential pitfalls Updated references to core guidelines (UK and international) reflect latest best practice

*Bioquímica* Jan Koolman, Klaus-Heinrich Röhm, 2004

*Introducción a la bioquímica y tecnología de los alimentos* Jean Claude Cheftel, Henri Cheftel, 1977

**Medical Biochemistry** John W Baynes, Marek H. Dominiczak, 2018-01-03 Now fully revised, this acclaimed textbook efficiently links basic biochemistry with the day-to-day practice of medicine. You will learn basic science concepts and see them illustrated by clinical cases that describe patients you will likely encounter in your clinical training. You will also learn about the use of laboratory tests to diagnose and monitor the most important conditions. Brought to you in a thorough yet accessible manner, this new edition of Medical Biochemistry highlights the latest developments in regulatory and molecular biology, signal transduction, biochemistry and biomarkers of chronic disease, and bioinformatics and the '-omics'. It highlights the most important global medical issues: diabetes mellitus, obesity and malnutrition, cancer and atherosclerotic cardiovascular disease, and addresses the role of nutrition and exercise in medicine. Featuring a team of expert contributors that includes investigators involved in cutting-edge research as well as experienced clinicians, this book offers a unique combination of research and clinical practice tailored to today's integrated courses. Read organ-focused chapters addressing the biochemistry of the bone, kidney, liver, lungs and muscle; and system-focused ones addressing the biochemistry of the immune and endocrine systems, neurochemistry and neurotransmission, and cancer. Featuring a team of expert contributors that includes investigators involved in cutting-edge research as well as experienced clinicians, this book offers a unique

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*Introducción a la bioquímica de los alimentos* J. B. S. Braverman, 1967

*Introducción a la bioquímica*, 1971

**Introducción a la Bioquímica y tecnología de los alimentos**, 1988

**Laboratorio de Bioquímica: Una Visión Práctica**,

**Biochemistry, Molecular Biology, and Genetics** Michael A. Lieberman, Rick E. Ricer, 2019-03 Fully updated for its sixth edition, chapters are written in an outline format and include pedagogical features such as bolded key words, figures, tables, algorithms, and highlighted clinical correlates. USMLE-style questions and answers follow each chapter and a comprehensive exam appears at the end of the book.

**Introducción a la bioquímica y tecnología de los alimentos** Jean-Claude Cheftel, Henri Cheftel, Francisco López Capont, 1976 El agua. Principales sistemas bioquímicos y alimentarios: Comportamiento durante los tratamientos. Leche y productos lácteos. Carne y pescado. Granos vegetales. Frutas y legumbres. Grasas y aceites. Agentes y mecanismos del deterioro de los alimentos. Alteraciones microbianas. Oxidación de lípidos. Pardeamiento no enzimático. Pardeamiento

enzimático.

Introducción a la bioquímica de los alimentos Joseph B. S. Braverman, Z. Berk, 1980 Fractal measures

**Bioquímica humana. Curso básico.** José M. Macarulla, Félix M. Goñi, 1994-06 El libro está dirigido sobre todo a profesionales sanitarios; las Escuelas de Enfermería lo encontrarán especialmente adecuado para sus cursos de Bioquímica y también será de utilidad para estudiantes de Medicina, e incluso médicos en ejercicio que deseen actualizar conocimientos. El diseño del libro permite estudiarlo a distintos niveles de profundidad. Las figuras añaden a menudo detalles no incluidos en el texto básico, y lo mismo ocurre con los problemas y prácticas de laboratorio. Además, hay que tener en cuenta las secciones de complementos y aplicaciones clínicas.

**Introducción a la bioquímica** William K. Stephenson, 1970

**Essential Cell Biology** Bruce Alberts, Dennis Bray, Karen Hopkin, Alexander D Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter Walter, 2015-01-01 Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology, including the biomedical sciences. The Fourth Edition has been thoroughly revised, and covers the latest developments in this fast-moving field, yet retains the academic level and length of the previous edition. The book is accompanied by a rich package of online student and instructor resources, including over 130 narrated movies, an expanded and updated Question Bank. Essential Cell Biology, Fourth Edition is additionally supported by the Garland Science Learning System. This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class, as well as individual students, via the instructor dashboard. Students receive immediate feedback on their mastery of the topics, and will be better prepared for lectures and classroom discussions. The user-friendly system provides a convenient way to engage students while assessing progress. Performance data can be used to tailor classroom discussion, activities, and lectures to address students' needs precisely and efficiently. For more information and sample material, visit <http://garlandscience.rocketmix.com/>.

*Embriología clínica* Keith L. Moore, T. V. N. Persaud, 2004 Resumen: Trata de forma completa, práctica y clínica toda la embriología humana y la teratología, explicando con detalle todos los cambios y procesos que suceden en el embrión de semana a semana y todos los estadios que se dan en el desarrollo de los órganos y los sistemas. Presta especial atención a las causas que originan y momentos en que pueden producirse las malformaciones en el feto y posibles defectos de desarrollo, lo que tiene efectos muy positivos en el alumno, que puede vislumbrar la utilidad de sus estudios desde el primer momento, ya

que a la vez que entiende los complejos procesos del desarrollo humano, comprende la trascendencia clínica que pueden tener los fallos en el proceso normal del desarrollo. Los conceptos clínicos complejos se presentan de una forma práctica y con numerosas imágenes a color, incluyendo imágenes tridimensionales, dibujos lineales, resonancias magnéticas, etc., esquemas y casos clínicos, lo que hace que el libro sea muy atractivo y de fácil manejo para el estudiante. Contiene también los últimos avances en embriología experimental y conceptos de biología molecular referentes al desarrollo embrionario (información de las células madre, formación de gametos, actividad y expresión génica, etc.).

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