

el siglo del gen. biología molecular y genética

GINÉS MORATA

En el siglo *xx* la sociedad humana ha incorporado de forma masiva el desarrollo tecnológico. Durante gran parte del siglo las mayores contribuciones tecnológicas han venido de los derivados de las ciencias físicas: automóviles, teléfono, aviones, plásticos, ordenadores, etc. La introducción de estos factores ha modificado la sociedad y el comportamiento humano más que los propios acontecimientos políticos y sociales. Sin embargo, durante la segunda mitad del siglo *xx*, y especialmente en las últimas dos décadas, han aparecido unas tecnologías biológicas que poseen un enorme potencial médico y social. Estas nuevas tecnologías, extraordinariamente poderosas, son las derivadas del progreso explosivo de la biología molecular en la segunda mitad del siglo *xx*. Ofrecen una nueva imagen de la evolución de la vida en el planeta y están llamadas a revolucionar la propia estructura de la sociedad humana.

Quizá la persona que más lúcidamente ha profundizado en estas ideas ha sido Sydney Brenner, uno de los científicos más brillantes del siglo *xx* que pasará a la historia de la ciencia por sus enormes aportaciones a la biología molecular, ciencia que contribuyó decisivamente a crear. Afirma Brenner que la nueva biología nos acerca a la comprensión de nosotros mismos, al entendimiento de los humanos como organismos: «por primera vez podemos plantear el problema fundamental del hombre y empezar a comprender nuestra evolución, nuestra historia, nuestra cultura y nuestra biología como un todo».

En esta exposición tratarei de la historia de los acontecimientos científicos que han dado lugar a esta situación y especularé brevemente sobre las implicaciones que tienen estos nuevos descubrimientos en la sociedad del futuro, e incluso en nuestra propia comprensión de la naturaleza humana.

Los hitos del conocimiento biológico

A lo largo de la historia de la biología han existido tres grandes revoluciones, entendiendo el concepto revolución como la introducción de un descubrimiento que es importante por sí mismo y que además da lugar a un cambio radical en el enfoque que hasta ese momento se daba a la disciplina. No sólo se trata del significado de la nueva información, sino también del efecto que tiene en el enfoque general de disciplina.

La primera revolución se produjo en 1860 con las teorías evolucionistas de Darwin y Wallace, que defendían la universalidad del origen de los seres vivos. La segunda revolución fue el descubrimiento de la universalidad del mecanismo de la información biológica propuesta por Watson y Crick en 1953. La tercera revolución ha sido el descubrimiento de la universalidad del diseño animal y de los procesos básicos de regulación de las funciones biológicas. Esta última revolución ha sucedido entre los años 1985-2000 del pasado siglo *x*, a diferencia de las anteriores, es el resultado de las contribuciones de un grupo relativamente numeroso de investigadores. Estos tres hechos

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