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(57) Abstract :
 The invention relates to a DNA origami modeling device (10) designed for educational and experimental structural biology applications. The device comprises modular scaffold strands (1), staple connectors (2), crossover junctions (3), hinge components (4), and locking clips (5) that replicate nanoscale DNA folding principles. It offers a hands-on approach to visualizing scaffold hybridization and structural dynamics while being reusable and cost-effective. Augmented reality integration enhances interactive learning, providing real-time digital visualization of assembled structures for improved comprehension of DNA origami concepts.

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