

The diagram illustrates the evolution of a genome from a single cell to a complex organism, showing the transition from a simple genome to a complex one with a large non-coding region.

**Top Panel: Coding Sequence Evolution**

- Row 1 (Simple Genome):** Shows a linear sequence of 10 green blocks representing coding regions. The sequence is: 1 green block, 2 green blocks, 3 green blocks, 4 green blocks, 5 green blocks, 6 green blocks, 7 green blocks, 8 green blocks, 9 green blocks, and 10 green blocks.
- Row 2 (Complex Genome):** Shows a linear sequence of 10 blocks representing coding regions. The sequence is: 1 green block, 2 green blocks, 3 green blocks, 4 green blocks, 5 green blocks, 6 green blocks, 7 green blocks, 8 green blocks, 9 green blocks, and 10 green blocks.

**Bottom Panel: Non-coding Sequence Evolution**

- Row 1 (Simple Genome):** Shows a single green block representing a non-coding region.
- Row 2 (Complex Genome):** Shows a single green block representing a non-coding region.

**Legend:**

- Coding:** Green blocks.
- Non-coding:** Blue blocks.

