A scenario of chiral amino acid evolution initiated with chiral alanine

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DNA encoding amino acids except of glycine have L-form homochiral structure. The chemical evolutionary process for amino acids to reach the homochiral structure has not been elucidated in detailed. However, considering in structural analogy among DNA encoding amino acids will give an insight us about the root from a simple chiral amino acid: L-alanine. The research proposes a chemical evolutionary tree of chiral amino acids from L-alanine. Some reasons will be shown from the viewpoints of chemical reactivity and the combination of codon bases.

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