

The new hypothesis on amino acid complementarity and its experimental proof.

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During our work on the periodicity of the genetic code we proposed a new scheme of amino acid pairing [Siemion, I.Z. and Stefanowicz, P., Biosystems, 27 (1992) 77; Bull. Pol. Acad. Sci., 40 (1992) 11]. Based on this scheme, we designed and synthesized the sequences IYTLCAcmGLYL (II), IYPLCAcmGLYL (V), and IYPLCAcmGLY (VI), which are 'antipeptides' with respect to immunoactive fragments of TGF β 2: YIGKTPKI (III) and YYIGKTPKIE (IV). The peptide-antipeptide interaction was investigated by electrospray ionization mass

spectrometry and circular dichroism methods. The results obtained indicate that peptides interact selectively with 'antipeptides'.

Adres publiczny

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