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Are There Bacterial-Protein Hybrids?

BECKY B. VEBLEN. (Introduced by W. H. Manwaring.)

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Fourth generation of subcultures of *B. typhosus*, *S. viridans*, and certain other microorganisms grown in 10% horse serum (Ringer's solution) are agglutinated in dilutions of 1:20 to 1:160 by anti-horse rabbit precipitin, controls cultures (nutrient broth) showing no agglutination.

With eighth to twelfth generation subcultures of the same microorganisms, definite agglutination takes place with 1:1000 anti-horse rabbit precipitin. The susceptibility of eighth to twelfth generation subcultures to precipitin-agglutination is not materially reduced by repeated washings with Ringer's solution. No agglutination of these subcultures takes place with any heterologous precipitin thus far tested (*e. g.*, anti-egg rabbit precipitin).

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Effects of Anterior Pituitary Extract Upon an Hypophysectomized Puppy.

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Gigantism has been produced by Evans and Long¹ by the injections of an anterior pituitary extract in immature rats. The same result was obtained by Putnam, Teel and Benedict^{2, 3} when the extract was administered to a bulldog. Normal growth was induced by injections of this fluid in hypophysectomized rats although there was no evident repair of the thyroid, suprarenals or gonads.⁴ Putnam, Teel and Benedict² state that "in hypophysectomized dogs and

¹ Evans, H. M., and Long, J. A., *Anat. Rec.*, 1921, xxi, 62.

² Putnam, T. J., Teel, H. M., and Benedict, E. B., *Am. J. Physiol.*, 1928, lxxxiv, 157.

³ Putnam, T. J., Benedict, E. B., and Teel, H. M., *Arch. Surg.*, 1929, xviii, 1708.

⁴ Smith, P. E., *J. Am. Med. Assn.*, 1927, lxxxviii, 158.