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- Bradley Sack, R., and Kapikian, A. Z. (1977b). An ELISA for detection of *E. coli* heat labile enterotoxin. *J. clin. Microbiol.* (In press.)
- Yorde, D. E., Sasse, E. A., Wang, T. Y., Husa, R. O., and Garancis, J. C. (1976). Competitive enzyme linked immunoassay with use of soluble enzyme/antibody immune complexes for labelling. I. Measurement of human choriogonadotropin. *Clin. Chem.*, **22**, 1372-1377.

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- Strannegård, O., Grillner, L., and Lindberg, I. M. (1975). Hemolysis-in-gel test for the demonstration of antibodies to rubella virus. *Journal of Clinical Microbiology*, **1**, 491-494.
- Yanez, J. E., Thompson, G. R., Mikkelsen, W. M., and Bartholomew, L. E. (1966). Rubella arthritis. *Annals of Internal Medicine*, **64**, 772-777.

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