Medical Sciences. In the article "Immunocytology on microwave-fixed cells reveals rapid and agonist-specific changes in subcellular accumulation patterns for cAMP or cGMP" by Julia Barsony and Stephen J. Marx, which appeared in number 3, February 1990, of *Proc. Natl. Acad. Sci. USA* (87, 1188-1192), the authors request that the following corrections be noted. (i) On p. 1189, left column, lines 14 and 15 from the bottom, 1 mM fluorescein isothiocyanate (FITC)cAMP or 1 mM FITC-cGMP should be 7 μ M fluorescein isothiocyanate (FITC)-cAMP or 7 μ M FITC-cGMP. (ii) On p. 1189, right column, lines 21-24 from the bottom, the sentence "Cross-reaction from rabbit polyclonal anti-cGMP antibody with cAMP was less by a factor of about 10 (0.1 mM) than from the monoclonal anti-cGMP antibody (1 mM)" should read as follows. Cross-reactions of the cGMP detection systems were appropriately minimal; the lower limits for a recognizable signal from cAMP with 4B6 and AB33/5-6-81 antibody were 0.1 mM and 1 mM, respectively. (iii) On p. 1190, Fig. 1 legend, line 2, 1 mM FITC-cGMP should read 7 μM FITC-cGMP.