Actions on Draft NTP Technical Reports Reviewed by the NTP Board of Scientific Counselors Technical Reports Review Subcommittee, June 12, 2006

Genistein (multigenerational) (TR 539)
The Subcommittee accepted unanimously (10 yes, 0 no) the summary of the findings for this continuous breeding study as written. Offspring from the F1 and F3 generations exposed *in utero* and during lactation to genistein, were either exposed to genistein or a control diet until 2 years of age (TR 545).

Genistein (bioassay) (TR 545)
The Subcommittee accepted unanimously (10 yes, 0 no) the conclusions as written, *no evidence of carcinogenic activity* in F1 male Sprague-Dawley rats and *some evidence of carcinogenic activity* in F1 female Sprague-Dawley rats exposed to genistein from conception to 2 years of age and *no evidence of carcinogenic activity* in F1 male Sprague-Dawley rats and *equivocal evidence of carcinogenic activity* in F1 female Sprague-Dawley rats exposed to genistein from conception to 20 weeks of age followed by control feed to 2 years of age.

The Subcommittee accepted unanimously (10 yes, 0 no) the conclusions, *no evidence of carcinogenic activity* in F3 male Sprague Dawley rats and *equivocal evidence of carcinogenic activity* in F3 female Sprague Dawley rats exposed to genistein from conception through weaning at postnatal day 21 followed by control diet to 2 years of age. The Subcommittee stated that the effects of genistein on estrous cycling and the incidences of common, hormonally related, spontaneous neoplasms of female Sprague-Dawley rats are consistent with an estrogenic mechanism of toxicity.

α-Methylstyrene (TR 543)
The Subcommittee accepted unanimously (9 yes, 0 no) the conclusions as written, *some evidence* of carcinogenic activity of α-methylstyrene in male F344/N rats, *no evidenc*e of carcinogenic activity in female F344/N rats, *equivocal evidence* of carcinogenic activity in male B6C3F1 mice, and *clear evidence* of carcinogenic activity in female B6C3F1 mice. The Subcommittee stated that the kidney toxicity in male rats exhibited some features of α2u-globulin nephropathy.

Methylene Blue Trihydrate (TR 540)
The Subcommittee accepted unanimously (10 yes, 0 no) the conclusions as written, *some evidence of carcinogenic activity* of methylene blue trihydrate in male F344/N rats and B6C3F1 mice, *no evidence of carcinogenic activity* in female F344/N rats, and *equivocal evidence of carcinogenic activity* in female B6C3F1 mice.