Reviewer's report

Title: Conventional and molecular cytogenetics of human non-medullary thyroid carcinoma: characterization of eight cell line models and review of the literature on clinical samples

Version: 1 Date: 20 August 2008

Reviewer: Susanne Gollin

Reviewer's report:

This is an important manuscript describing the karyotypic features of thyroid carcinoma cell lines compared to primary tumors. The study was carefully done and the manuscript well-written. It provides important classical and molecular cytogenetic data to the literature. It also points out how cell lines can be used as models for cancer research and the importance of karyotyping for quality assurance. It provides the scientific community new information, not only on the karyotypes from classical cytogenetic analysis and chromosomal gains and losses revealed by chromosomal CGH, but points out the cross-contamination or derivation of two cell lines.

Minor Essential Revisions
1. Carlsbad, CA not CL
2. Fluorescence in situ hybridization rather than Fluorescent
3. These data rather than this data
4. standard cytogenetic analysis should be classical cytogenetic analysis (cytogenetic analysis is certainly not standard!)
5. Three normal chromosomes 5 rather than that which is written near the bottom of page 9
6. near-triploid rather than near-triplod

Level of interest: An article of importance in its field

Quality of written English: Needs some language corrections before being published

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests