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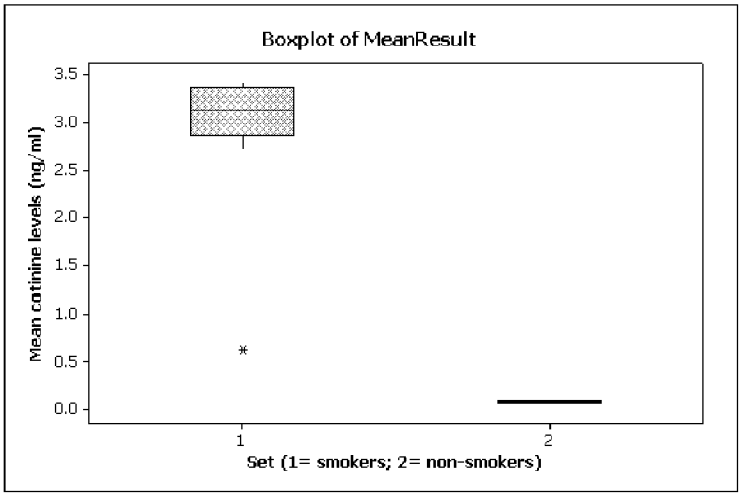
[Continued on next page]

(54) Title: METHODS AND COMPOSITIONS FOR DETERMINING SMOKING STATUS

Figure 1



(57) Abstract: Peripheral blood markers are provided whose expression levels correlate with smoking status. Predictive models developed using highly informative markers are disclosed, along with systems, kits, and methods for using the markers to provide a biochemical surrogate for a subject's smoking status. In some embodiments, the smoking-related disease is chronic obstructive pulmonary disease, chronic bronchitis, emphysema, lung cancer, and/or asthma.

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