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935 Melanoma Prevention Using Topical PBISe
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ABOUT THE COVER

The cover features an image of RNA sequencing (RNA-Seq) results for a
processed transcript of the mucin SAC gene (MUC5AC, foreground), a
potentially important smoking– and lung cancer–related gene. The output is
superimposed on an image of human ciliated columnar bronchial epithelial cells
obtained by endoscopic brushings of the mainstem bronchi (100X,
modified Wright-Giemsa stain). The MUC5AC read coverage plot displays
reads aligning to the transcript normalized by the total number of reads on
the y-axis versus the genomic coordinates on the x-axis. The MUC5AC
processed transcript shows marked upregulation in healthy current smokers
compared with never smokers and downregulation in smokers with lung
cancer compared with smokers having benign lung disease. The detection of
MUC5AC expression highlights the advantage of RNA–Seq because the
transcript is not annotated in RefSeq and there are no probes on the
Affymetrix Exon 1.0 ST microarray to interrogate it. RNA–Seq is one of several
cutting-edge next-generation sequencing platforms producing tremendous
advances in the biology of cancer and premalignancy that promise to lead to
new, effective approaches for cancer therapy and prevention. See articles by
Beane et al. (beginning on page 803) and Blackburn (beginning on page 787)
for more information.
Cancer Prevention Research

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