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RETRACTION

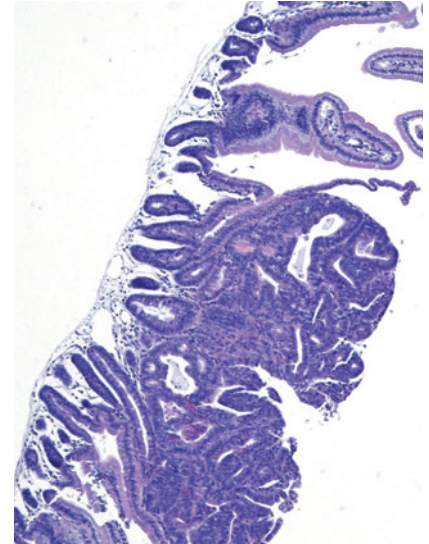
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ABOUT THE COVER

In 2015, the World Health Organization classified the consumption of red meat as probably carcinogenic to humans, mainly for colon cancer. The associated recommendation was to limit the red meat intake to 500 g per week, but not all socio-economic classes are receptive to such nutritional messages. Other means are thus needed to limit cancer risk in all the population. Heme iron is a major actor in the red meat-induced promotion of colon cancer: it catalyses lipid peroxidation and produces cytotoxic and genotoxic aldehydes that could promote carcinogenesis. It was speculated that enrichment of red meat with antioxidant agents using a marinade would decrease meat-associated cancer risk via limitation of the heme induced luminal peroxidation. The cover shows the histological section of an adenoma from the intestine of a female Apc(Min) mice (H&E staining). The adenoma number was reduced in mice given marinated beef meat compared with mice given non-marinated meat. This protection provided by the marinade was associated with the decrease of fecal lipid peroxidation in different cancer animal models and in the stools of human volunteers, without any adverse organoleptic effect.



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