

quantified by 3D modalities including surface roughness, angular spectrum and Abbott curve that will measure minute angiogenic response of CAM, spread of blood vessels over CAM surface, and height versus surface area of blood vessels, respectively.

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P#30

Detection of Gastric *Helicobacter* Organism in Feral Raccoons (*Nyctereutes Procyonoides*)

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Several *Helicobacter* species have been isolated from the gastrointestinal tracts of various domestic and wild animals. This study carried out to evaluate the prevalence of *Helicobacter* in feral raccoons. Samples for urease test, brush cytology, histologic examination, and PCR technique were collected from the oesophagus, fundus, corpus, antrum, and duodenum of 7 raccoon dogs (19 sites from each animal). Positive urease test was observed in 69.2% samples. *Helicobacter-like* microorganism were demonstrated in 95.5% of raccoon dogs by brush cytology and 81.2% samples by histological examination. Brush cytology and SEM of raccoon dog

stomach showed tightly spiraled organism. All of stomach samples from raccoon dogs were positive by PCR assay. The results of mapping in raccoon stomach showed that positive rate in the fundus (100%) was more higher than that in the body and the antrum. PCR assay was the most sensitive detection method, but brush cytology was very rapid, simple and more sensitive method for detection *Helicobacter* organisms.

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P#31

Impact of Sidestream Whole Smoke Solutions from Commercial Cigarettes on the Outcome of Wound Repair and Related Angiogenesis

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Angiogenesis occurs as a highly regulated process, which is rapidly stimulated after injury. Wound angiogenesis is essential to support the regenerating tissue with oxygen and nutrition and any setback in angiogenesis may result in retarded wound repair. Cigarette smoking causes numerous adverse effects, some of which are associated with poor healing. The current experiment was carried