

Figure I-13 Nose
Respiratory epithelium: Ulcer and nasal septum erosion
level II, *Akh2* $-/-$, 500ppm acetaldehyde exposure case

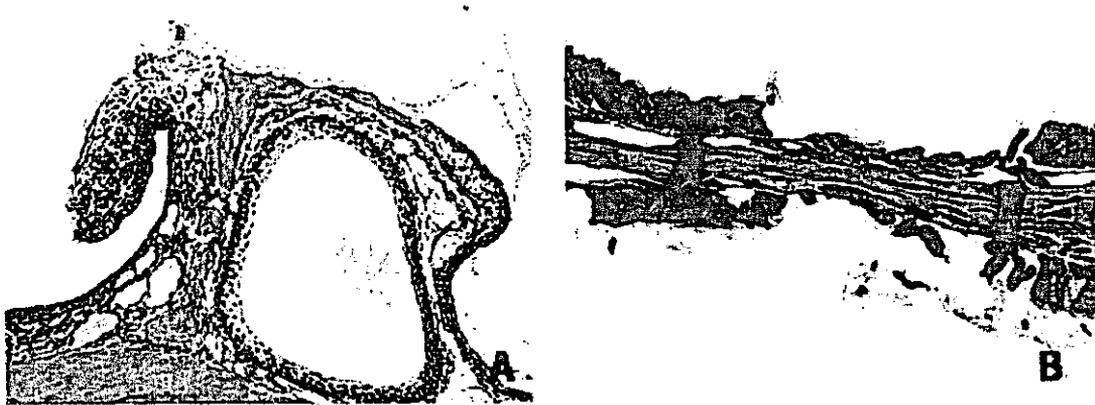


Figure I-14 Nose
Respiratory epithelium: Moderately degeneration
level I, *Akh2 +/+*, 125ppm acetaldehyde exposure case



Figure I-15 Nose
Respiratory epithelium: Slightly and moderately degeneration
level I, *Alh2 +/+*, 500ppm acetaldehyde exposure case

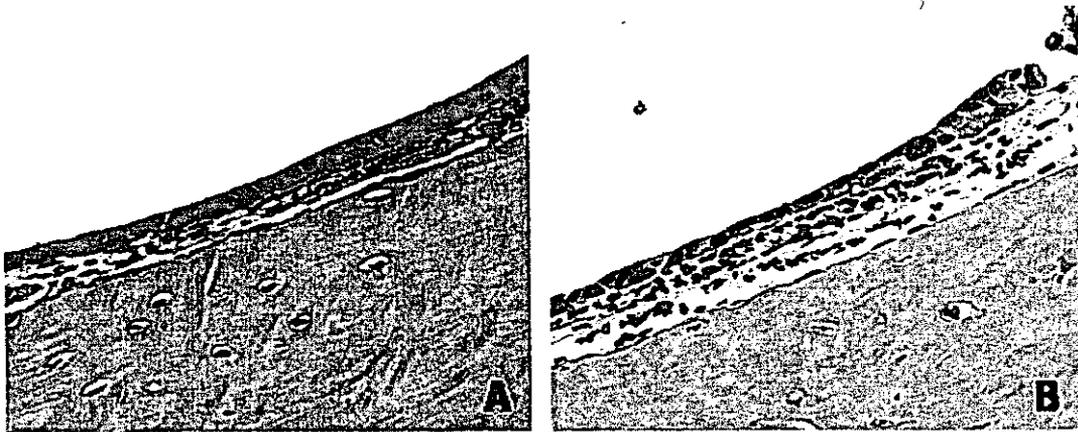


Figure I-16 Nose
Respiratory epithelium: Moderately degeneration
level II, *Aldh2*^{-/-}, 125ppm acetaldehyde exposure case



Figure I-17 Nose
Respiratory epithelium: Moderately and severe degeneration
level II, *Aldh2*^{-/-}, 500ppm acetaldehyde exposure case



Figure I-18 Nose
Olfactory epithelium
level II, *Aldh2* +/+ , control

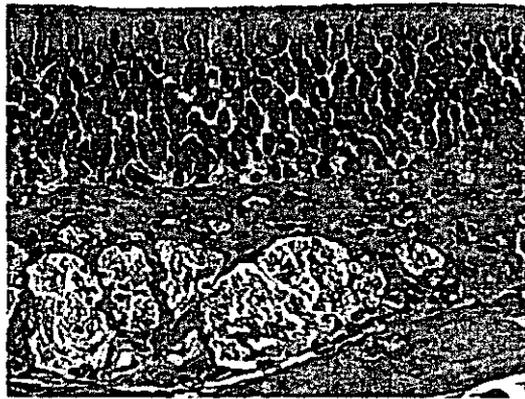


Figure I-19 Nose
Olfactory epithelium, Slightly degeneration
level II, *Aldh2* +/+ and *Aldh2* -/-, 500ppm acetadehyde
exposure case



***Aldh2* +/+**

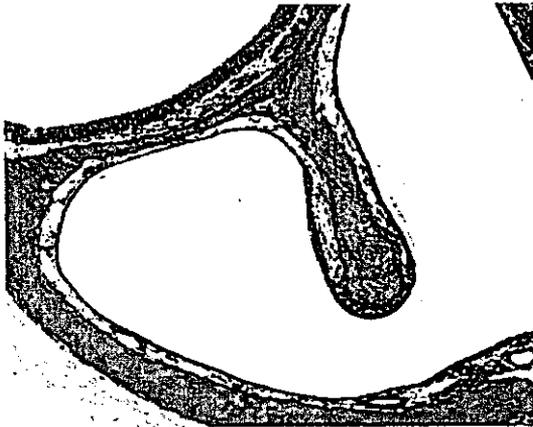


***Aldh2* -/-**

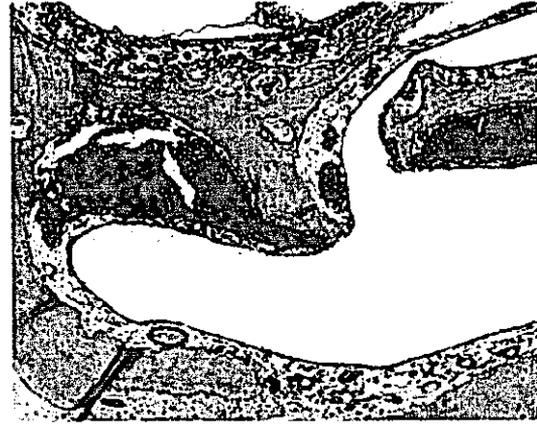
Figure I-20 Nose
Subepithelium: Hemorrhage
level I, *Ahh2* -/-, 125ppm acetaldehyde exposure case



Figure I-21 Nose
Subepithelium: Hemorrhage
level I, *Aldh2* +/+ , control and *Aldh2* -/- , 500ppm acetaldehyde
exposure case



***Aldh2* +/+ , control**



***Aldh2* -/- , 500ppm exposure case**

Figure I-22 Nose

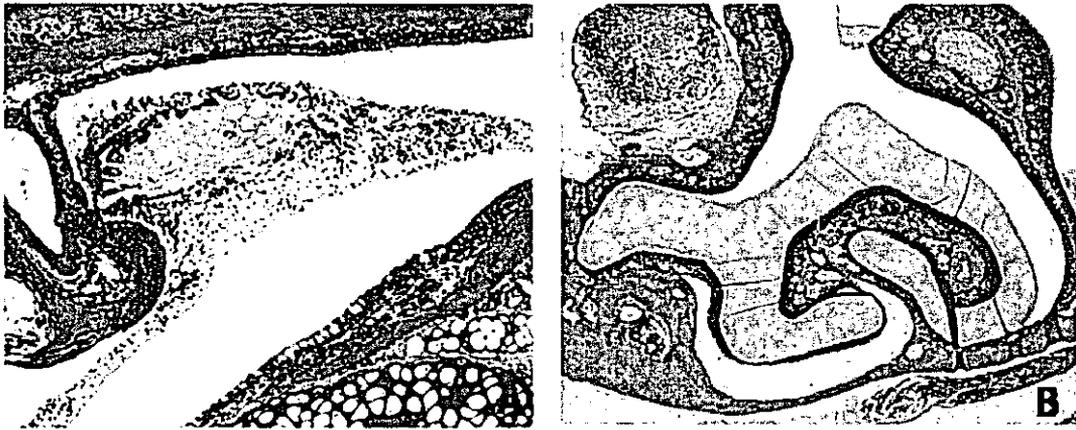
**Subepithelium and nasal cavity: Hemorrhage and exudate;
level I, *Alh2* -/-, 500ppm acetakdehyde exposure case**



**Figure II-1 Nasal cavity
Hemorrhage
level III, *Aldh2* *-/-*, 125ppm acetaldehyde exposure case**



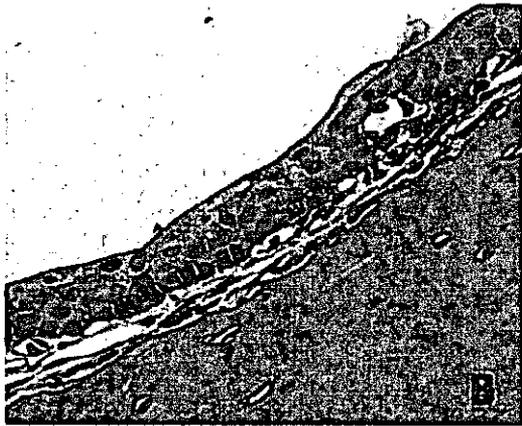
**Figure II-2 Nasal cavity
Exudate
level I&III, *Aldh2* +/+, 500ppm acetakdehyde exposure case**



**Figure II-3 Nasal cavity
Hemorrhage and Exudate
level III, *Aldh2* *-/-*, 500ppm acetaldehyde exposure case**



**Figure III-1 Paranasal sinuses
level II, *Aldh2* +/+ , control**



**Figure III-2 Paranasal sinuses
Normal and hemorrhage
level II, *Akh2 +/+*, 500ppm acetaldehyde exposure case**



Normal



Hemorrhage

Figure IV-1 Larynx, pharynx and trachea
***Aldh2 +/+*, control**

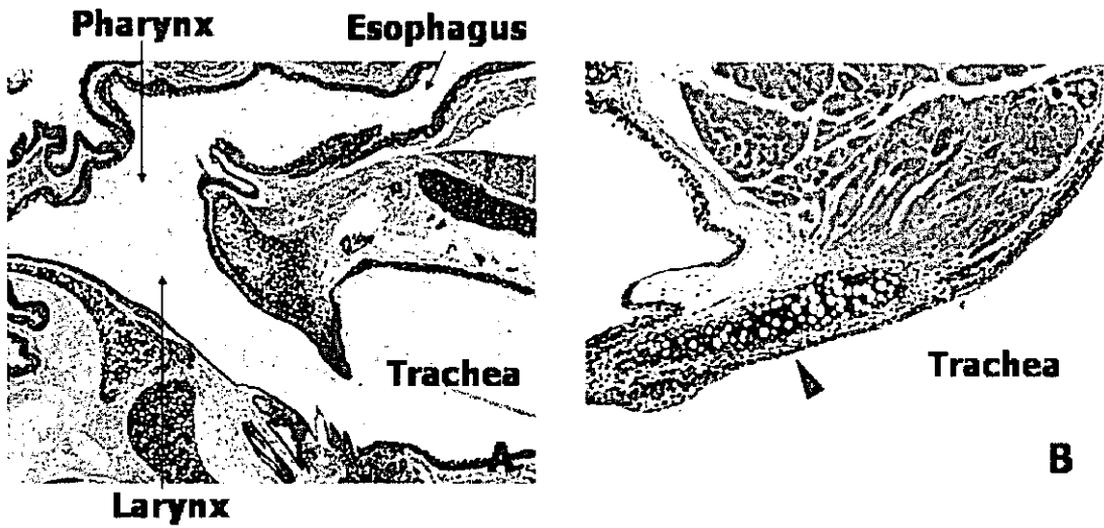


Figure IV-2 Trachea

Erosion

***Akh2 +/+*, control and 125ppm acetaldehyde exposure case**



Control



125ppm exposure case

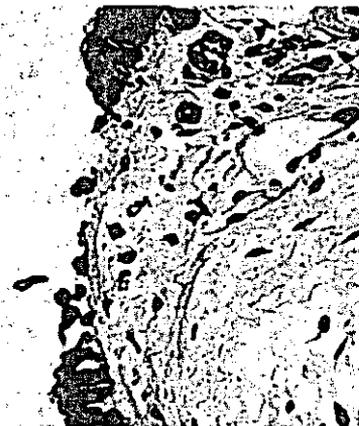
Figure IV-3 Trachea

Erosion

***Aldh2* -/-, 125ppm and 500ppm acetaldehyde exposure case**



125ppm exposure case



500ppm exposure case

Figure IV-4 Trachea
Slight and Moderately degeneration
***Akh2 +/+*, 125ppm acetaldehyde exposure case**

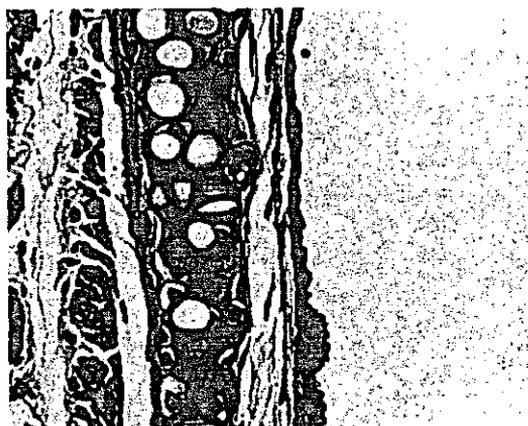


Figure IV-5 Trachea
Moderately degeneration
***Aldh2*^{-/-}, 125ppm acetakdehyde exposure case**

