

The following abbreviations, colours and staining intensities were used in the text, tables and captions to figures in the present dissertation.

Abbreviations :

| | | | |
|-----|----------|---|------------------------------------|
| 1) | H-E | - | Hematoxylin - Eosin |
| 2) | M-T | - | Mallory's Triple Stain |
| 3) | PAS | - | Periodic Acid- Schiff |
| 4) | Ph- PAS | - | Phenylhydrazine - PAS |
| 5) | AB | - | Alcian blue 8 GX - 300 |
| 6) | C.I. | - | Colloidal Iron |
| 7) | AF | - | Aldehyde Fuchsin |
| 8) | CEC | - | Critical Electrolyte Concentration |
| 9) | M - 37°C | - | Mild Methylation |
| 10) | M-37°C-S | - | Mild Methylation- Saponification |
| 11) | M-60°C | - | Active Methylation |
| 12) | M-60°C-S | - | Active Methylation- Saponification |
| 13) | N | - | Nuclei |
| 14) | C | - | Cytoplasm |
| 15) | S | - | Secretion |

Colours :

| | | | |
|----|----|---|-----------------------------------|
| 1) | P | - | Pink or Magenta or Purple |
| 2) | B | - | Blue or Greenish-blue |
| 3) | PB | - | Purple-blue |
| 4) | BP | - | Bluish - pink (or Purple) |
| 5) | O | - | Orthochromatic Blue |
| 6) | M | - | Metachromatic purple, Pink or Red |

Staining Intensities :

| | | | |
|----|----------|---|-------------------|
| 1) | ++++ | - | Intense |
| 2) | +++ | - | Moderate |
| 3) | ++ | - | Weak |
| 4) | + | - | Poor |
| 5) | <u>+</u> | - | Trace |
| 6) | - | - | Negative Reaction |

Captions to Figures :

The photomicrographs (Figs.1 to 76) include the transverse sections of the testis and Cowper's gland of the animals employed in the present investigation.