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Cover: *This is a schematic representation of the decrease in the immunostaining and activity of P450 aromatase (arom) in mouse sperm as they traverse the efferent ductules and epididymis. P450arom is first detected in germ cells in the testis (Nitta et al, 1993). As sperm undergo maturation within the epididymis, there is a decrease in P450arom immunostaining and activity, associated with the loss of the cytoplasmic droplet that occurs in the corpus and cauda epididymis. It is our hypothesis that estrogen synthesized by sperm is important in the regulation of the proximal epididymis. (See article by Janulis et al.)*