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Mammalian spermatozoa applied to thin layers of gelatin impregnated with India ink and fixed in glutaraldehyde (method of Dr. Noel Owers) show proteolytic activity confined to the acrosome. Release of the enzyme occurs solely in the region of the acrosome, in a manner which is species-specific. See page 749. [Penelope Gaddum and Richard J. Blandau, University of Washington]