

Adenylate cyclase activity in *Xenopus laevis* ovarian follicles

Jordana, Xavier

Otero, Carlos

Allende, Catherine C.

Allende, Jorge

Flawia, Mirtha M.

Kornblihtt, Alberto R.

Torres, Hector N.

An adenylate cyclase activity was identified and characterized in preparations from *Xenopus laevis* ovarian tissue and follicles. The enzyme is more active in the presence of Mn^{2+} than of Mg^{2+} , and it is highly activated by fluoride, guanylyl-5'-yl-imidodiphosphate [Gpp(NH)p] and cholera toxin. During the last stages of oogenesis, as the oocytes grow in volume, the total adenylate cyclase activity increases more than tenfold, maintaining a constant relationship to the surface area of the follicle. © 1981 Martinus Nijhoff/Dr W. Junk Publishers.