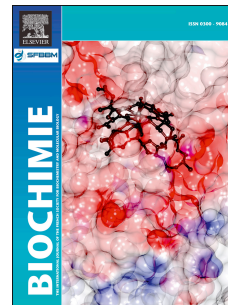


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Alkaline pH induces IRR-mediated phosphorylation of IRS-1 and actin cytoskeleton remodeling in a pancreatic beta cell line

Igor E. Deyev, Nadezhda V. Popova, Oxana V. Serova, Svetlana V. Zhenilo, Mari Regoli, Eugenio Bertelli, Alexander G. Petrenko



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Research highlights

1. **Background:** A pancreatic beta cell line expresses IRR, an alkali-sensing homolog of the insulin receptor.
2. **Results:** Alkali induces IRR-dependent phosphorylation of IRS-1 and actin cytoskeleton remodeling.
3. **Conclusion:** A pancreatic beta cell line responds to alkaline media by intracellular signaling.
4. **Significance:** Our data suggest a novel signaling mechanism in the pancreas.

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