

HISTIDINE KINASES IN SIGNAL TRANSDUCTION%0A

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Phosphorelay from histidine kinases to response regulators controls a myriad of processes in bacteria but appears to be more specialized in eukaryotes. At least 15 members of the histidine kinase family can be recognized in the genomic sequences of *Dictyostelium discoideum*.

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[Signal Transduction in Histidine Kinases: Insights From ...](#)

Histidine kinases (HKs) are major players in bacterial signaling. Bhate et al. provide a comprehensive analysis of the HK crystal structures described over the last 5 years and discuss how insights from enzymology, structural biology, protein engineering, and thermodynamics deepen our understanding of HK signal transduction.

[Histidine protein kinases: key signal transducers outside ...](#)

In *Histidine Kinases in Signal Transduction*, New York: Academic Press, a forthcoming thorough review of HPK signaling in a new collection of reviews on two-component systems, Schlessinger J. Cell signaling by receptor tyrosine kinases.

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purified RegA and the Km for cAMP was found to be 5 M. RegA had no activity on cGMP, unlike the major cyclic

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histidine kinases in signal transduction Mon, 10 Dec 2018 04:29:00 GMT histidine kinases in signal transduction pdf

- In the field of molecular biology, a two-component regulatory system serves as a basic stimulus-response coupling mechanism to allow organisms to sense and respond to changes in many different environmental conditions. Two-component systems typically consist of a membrane-bound

[Histidine Kinases in Signal Transduction - ResearchGate](#)

Living cells are constantly sensing environmental changes, and their abilities to sense these changes and adapt to them are essential for their survival. In bacteria, histidine kinases are the

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Two-component systems represent a critical stimulus-response mechanism abundant in most bacteria. Stimulus is sensed by a histidine kinase (HK) and transmitted to a response regulator (RR), which in most cases binds to DNA and mediates a cellular response.

[Signal Transduction in Histidine Kinases: Insights from ...](#)

Structure Review Signal Transduction in Histidine Kinases: Insights from New Structures Manasi P. Bhate,¹ Kathleen S. Molnar,² Mark Goulian,³ and William F. DeGrado^{1,*}

[Signal transduction histidine kinase, phosphotransfer \(Hpt ...](#)

Signal transducing histidine kinases are the key elements in two-component signal transduction systems, which control complex processes such as the initiation of development in microorganisms [PMID: 8868347, PMID: 11406410].

[Histidine kinase - Wikipedia](#)

Histidine kinases (HK) are multifunctional, and in non-animal kingdoms, typically transmembrane, proteins of the transferase class of enzymes that play a role in signal transduction across the cellular membrane.

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[Signal transduction histidine kinase-related protein, C ...](#)

Signal transducing histidine kinases are the key elements in two-component signal transduction systems, which control complex processes such as the initiation of development in microorganisms [PMID: 8868347, PMID: 11406410].

[Protein kinase - Wikipedia](#)

Histidine kinases are structurally distinct from most other protein kinases and are found mostly in prokaryotes as part of two-component signal transduction mechanisms. A phosphate group from ATP is first added to a histidine residue within the kinase, and later transferred to an aspartate residue on a 'receiver domain' on a different protein, or sometimes on the kinase itself.

[Histidine kinases in plants - PubMed Central \(PMC\)](#)

Histidine kinases in plants. The histidine kinases have been identified in increasing number of plant species, such as Arabidopsis, maize, rice, soybeans, poplar and Lotus japonicus besides a few others. 3-8 The essentiality and importance of HKs can be judged by the level of

conservation across plant species.