Centrosomes And Spindle Pole Bodies Volume 67

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Centrosomes and spindle pole bodies are major microtubule organizing centres (MTOCs) of animal and yeast cells, respectively. A specialized centrosome structure also serves as template for cilia and flagella formation. These MTOCs play critical roles in cell division, cell polarity, signalling, immunity, cell motility and animal development.

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Containing a comprehensive collection of convenient and quantitative methods for studying centrosomes, spindle pole bodies and related organelles, this text is a valuable resource for researchers and others interested in studying the role of these organelles in cell replication. Chapters outlining the role of these organelles in other cell functions are also included, and a wide variety of ...

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Centrosomes and spindle pole bodies - EMBO

The functional equivalent of the centrosome in budding yeast is called the spindle pole body (SPB). It lies embedded in the nuclear membrane, which remains intact during mitosis. The SPB is a cylindrical multi-layered organelle, with the two most visible layers being the outer and central plaques (figure 1 a). Attached to one side of the SPB is a specialized part of the nuclear membrane called the half-bridge.

Lessons from yeast: the spindle pole body and the centrosome

Centrosome and spindle pole bodies (SPB) are major microtubule organising centres of animal and yeast cells, respectively. They play critical roles in cell division, cell polarity, signaling, immunity, cell motility and animal development.

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Centrosomes are associated with the nuclear membrane during the prophase stage of the cell cycle. In mitosis the nuclear membrane breaks down and the centrosome nucleated microtubules can interact with the chromosomes to build the mitotic spindle.. The mother centriole, the older of the two in the centriole pair, also has a central role in making cilia and flagella.

Centrosome - Wikipedia

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The spindle pole body is the microtubule organizing center in yeast cells, functionally equivalent to the centrosome. Unlike the centrosome the SPB does not contain centrioles. The SPB organises the microtubule cytoskeleton which plays many roles in the cell. It is important for organising the spindle and thus in cell division.

Spindle pole body - Wikipedia

Description Containing a comprehensive collection of convenient and quantitative methods for studying centrosomes, spindle pole bodies and related organelles, this text is a valuable resource for researchers and others interested in studying the role of these organelles in cell replication.

Centrosomes and Spindle Pole Bodies, Volume 67 - 1st Edition

The spindle apparatus is vaguely ellipsoid in cross section and tapers at the ends. In the wide middle portion, known as the spindle midzone, antiparallel microtubules are bundled by kinesins. At the pointed ends, known as spindle poles, microtubules are nucleated by the centrosomes in most animal cells.

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