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The Cell: A Molecular Approach, Sixth Edition

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Nuclear division takes place in the mother cell in Ascomycetes (left) but occurs in the newly budded daughter cell in the Basidiomycetes group of fungi (right) Using a systems biology approach, Sutradhar, Yadav, Sridhar, et al report that the number of cytoplasmic microtubules is a key determinant of the site of nuclear division in these fungi

CELL AND MOLECULAR BIOLOGY BIOS 204

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approach requires the development of standard protocols, new cell lines and quantitative analysis methods, which include well-suited three-dimensional imaging techniques

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Aptamers Generated from Cell-SELEX for Molecular Medicine: A Chemical Biology Approach XIAOHONG FANG†,* AND WEIHONG TAN‡,§,* †Beijing National Laboratory for Molecular Sciences, Key Laboratory of Molecular Nanostructures and Nanotechnology, Institute of Chemistry, Chinese

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industry and in basic molecular research Both its unique potential and the challenges it presents have brought together the expertise of an eclectic group of scientists, from cell biologists to engineers In this Viewpoint article, five experts discuss their views on the future of ...