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COVER SYNGAMY II is one of a series of paintings by the Pennsylvania artist Peter Cohen on the first mitosis within the fertilized egg. The mitochondria, which have assumed the round shape seen in the painting, leave a clear space within the cytoplasm for the dance of the chromosomes on the luminous spindle. The paintings of Peter Cohen are currently on exhibit at AAAS in Washington as part of the AAAS Art of Science and Technology Program, which displays work reflecting the interaction of art and science. See the articles on the cell cycle that begin on page 603.

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