

Cover image: Dynamics of membrane fusion. Fusion of giant unilamellar vesicles (cross-sections of vesicles labeled in green and red, top) can be achieved by using two approaches: ligand-mediated fusion and electrofusion (three fusion sequences, middle). Fusing vesicles of different composition leads to formation of vesicles with domains (bottom right). The opening of the fusion necks is rapid, with an average expansion velocity of centimeters per second. See the article by Haluska *et al.* on pages 15841–15846. Image courtesy of Rumiana Dimova and Natalya Bezlyepkina (Max Planck Institute of Colloids and Interfaces, Potsdam, Germany).

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