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**ABOUT THE COVER**

This image represents a rose plot comparing migratory behaviors of cancer cells *in vitro* with that observed *in vivo*. Human melanoma cells display highly directional migration when grafted into an embryonic microenvironment native to the cancer cell’s embryonic precursor, the neural crest. Grafted melanoma cells recognize and are subject to embryonic neural crest guidance cues and microenvironmental signals. This graph displays a direct comparison of both cell trajectory (directionality) and migratory distance, as captured by *in ovo* time-lapse microscopy. The size of each bar depicts the number of binned cells for a given angle. The colored segments depict the distance migrated by cells within the bin. For more information, see the article by Bailey and Kulesa on page 1303.