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Cover: While O₂ may limit the duration of a single dive during extended foraging bouts in king penguins (*Aptenodytes patagonicus*), more than 95% of all dives are performed by aerobic metabolism. If O₂ does not limit the length of a dive bout what else could be limiting dive performance? Fahlman et al. (pp. 3344–3355) argue that elevated blood and tissue N₂ tension, and thereby decompression sickness risk, may eventually limit the length of foraging bouts. Photo credit: Sébastien Durand.

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