Facial and vocal individual recognition in the common chimpanzee.
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AB Explored whether facial and vocal recognition of familiar individuals and vocal-to-facial matching of familiar individuals occurs in common chimpanzees. Three juvenile chimpanzees were rewarded with fruit for matching faces or faces and voices. The matching of different facial portraits and pant-hoot vocalizations correctly to an array of 6 facial portraits of familiar individuals randomly sorted from trial-to-trial occurred at greater than chance levels. By correctly matching individual chimpanzee faces and vocalizations, Ss demonstrated their ability to recognize familiar facial configurations and long-distance vocalizations and match these across modes of sensation, prerequisites for monitoring the location and state of fellow group members and avoiding aggressive interactions with less related strangers. The concept of reciprocal altruism is discussed in this context.