Supporting Information

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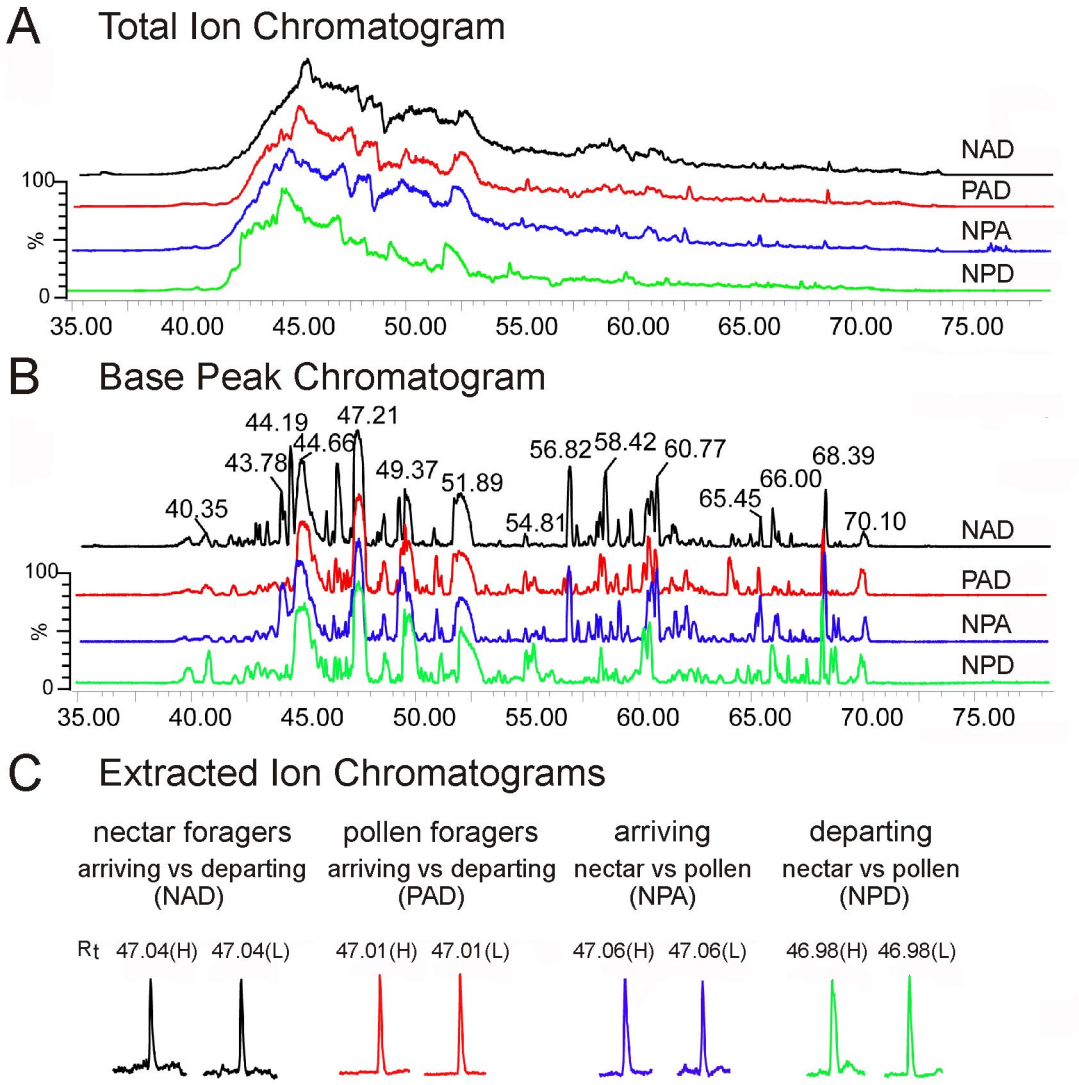

Fig. S1. Peptide extraction and analysis demonstrating consistent chromatograms across samples. Brain peptides were labeled and separated as described in *Materials and Methods*. Representative total ion chromatograms (*A*) and base peak chromatograms (*B*) for the 4 different sample comparisons from one colony (NAD, arriving versus departing nectar foragers; PAD, arriving versus departing pollen foragers; NPA, arriving nectar versus arriving pollen foragers; NPD, departing nectar versus departing pollen foragers). After the separation, brain peptide samples were directly analyzed by using an electrospray ionization quadrupole time-of-flight (ESI-QTOF) mass spectrometer. (*C*) Extracted ion chromatogram peaks for the heavy (H) and light (L) isotope labeled tachykinin peptide APMGFQGMRa from the 4 different samples for one colony. R_t, retention time.

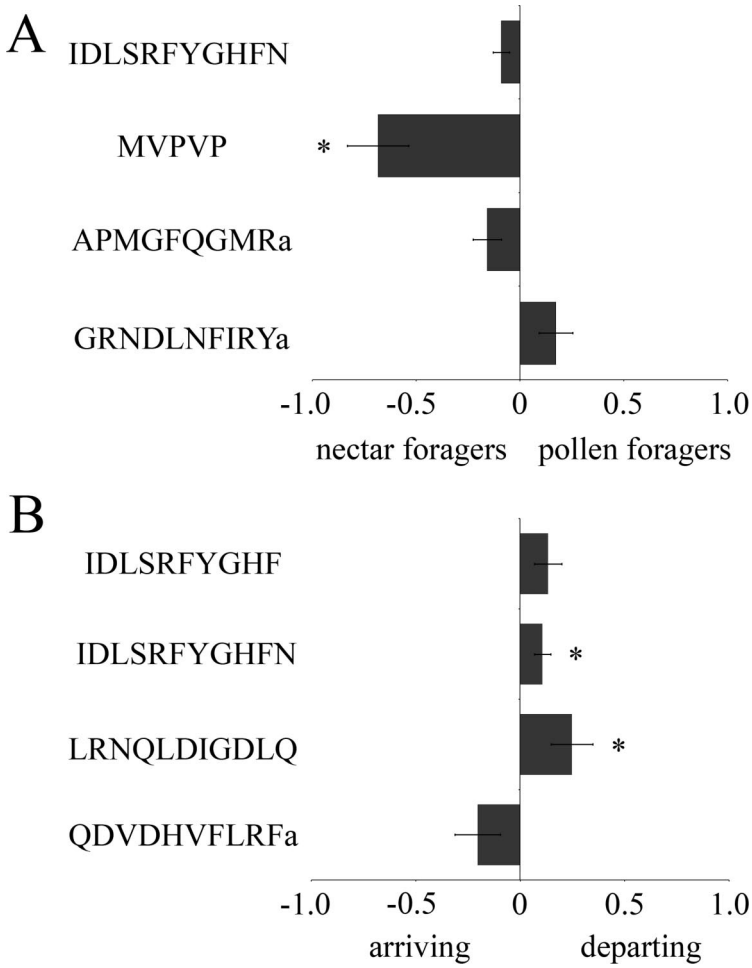

Fig. S2. Relative differences in brain peptide abundances between (*A*) nectar and pollen foragers independent of arriving and departing and (*B*) arriving and departing foragers independent of collected food. Indicated significance levels (Student's *t* test): *, $P < 0.05$.