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the second approach used to assess the genetic basis of floral traits influencing pollination interactions is to identify the exact gene or genes and the molecular mechanisms that control floral traits reviewed in sapir 2009b the molecular variation of the exact gene that controls the phenotypic variation is not easy to determine for plants lacking full annotated genomes, flower constancy in insect pollinators adaptive foraging behaviour or cognitive limitation pubmed central pmc - background over 2000 y ago aristotle 340bc observed that honeybee apis mellifera workers visit flowers of only one flower type during a foraging trip 1 this is known as flower constancy and has been shown to occur in a wide range of insect pollinators 1 8 flower constancy is beneficial for plants because it prevents pollen loss to allospecific plants and stigma blocking with, the pollination potential of free foraging bumblebee bombus spp males hymenoptera apidae springerlink* - *menzel r 2001 behavioural and neural mechanisms of learning and memory as determinants of flower constancy in chittka l thomson j d eds cognitive ecology of pollination animal behaviour and floral evolution pp 21 40 cambridge university press cambridge crossref google scholar, pollinator behavior and deceptive pollination learning process and floral evolution the american naturalist vol 152 no 5 journals uchicago edu - abstract some species of flowering plants engage in nonmodel deceptive pollination attracting pollinators by large nonmimetic floral displays and providing no reward pollinators can learn to avoid deceptive plants and to favor nectariferous species the reproductive success of these species is expected to be density dependent for two opposite reasons the commoner cheating flowers are the, pdf the pollination potential of free foraging bumblebee bombus spp males hymenoptera apidae researchgate share and discover research* - *the pollination potential of free foraging bumblebee bombus spp males hymenoptera*

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