

# Online Resource 4

## **A comprehensive and cost-effective approach for investigating passive dispersal in minute invertebrates with case studies of phytophagous eriophyid mites**

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### **Estimated costs of devices construction in USD.**

Tunnel variant	Component**	Price/part [\$]	Quantity	Cost [\$]
‘Wind-transcience’ tunnel	PMMA tube	22.00	1	22.00
	PVC tube	2.00	1	2.00
	Axial fan (Vents 100 VKO)	10.00	1	10.00
	Electrical wires	4.00	1	4.00
	PVC elbow connector	1.50	1	1.50
	Polyamide funnel	22.00	1	22.00
	Ø 12 mm aluminum tubes	0.50	26	13.00
	Ø 16 mm aluminum tubes	0.10	15	1.50
	Metal grille	3.00	1	3.00
	Wooden plank	1.50	1	1.50
	Brackets - Metal furniture legs 25 cm	4.00	2	8.00
	PVC Pipe Clamp	2.00	2	4.00
	Small accessories (e.g. screws)			0.50
	Power regulator (PAMEL PRD1)	32.00	1	32.00
Programmer TS-EF1 BEMKO	8.00	1	8.00	
<b>TOTAL COST OF THE 'WIND-TRANSCIENCE' TUNNEL</b>				<b>133.00</b>
‘Vector-transcience’ tunnel	Lego Mindstorms NXT 2.0	320.00	1	320.00
	PMMA tube	22.00	1	22.00
	Wooden plank	1.50	1	1.50
	PVC Pipe Clamp	2.00	2	4.00
	PVC tube	2.00	1	2.00
	Brackets - Metal furniture legs 15 cm	3.00	2	6.00
	Wool-covered ball	1.00	1	1.00
	Small accessories (e.g. screws, electrical wires)			0.50
<b>TOTAL COST OF THE 'VECTOR-TRANSCIENCE' TUNNEL</b>				<b>357.00</b>
‘Departure’ tunnel	Axial fan (DP202A212, Sunon Taiwan)	10.00	1	10.00
	PMMA tube	4.00	1	4.00
	PVC tube	5.00	1	5.00
	Power regulator (PAMEL PRD1)	32.00	1	32.00
	Small accessories (e.g. screws, electrical wires)			0.50
<b>TOTAL COST OF THE 'DEPARTURE' TUNNEL</b>				<b>51.50</b>
Anemometer	Testo 405i anemometer	105.00	1	105.00
<b>TOTAL COST OF THE ENTIRE DISPERSAL SYSTEM</b>				<b>646.50</b>

\*\*All materials are commonly available from local hardware stores or online retailers.