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Supplement of

Automatic pollen recognition with the Rapid-E particle counter: the first-level procedure, experience and next steps

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Supplement of “Automatic pollen recognition with the Rapid-E particle counter: the first-level procedure, experience and next steps”

Table S1. Confusion table for pollen taxa identification by using ANN based on scattering image.
Multiclass accuracy 44 %

Plant genus	<i>Festuca</i>	<i>Artemisia</i>	<i>Corylus</i>	<i>Alnus</i>	<i>Betula</i>	<i>Salix</i>	<i>Populus</i>	<i>Acer</i>	<i>Juniperus</i>	<i>Quercus</i>	<i>Pinus</i>
<i>Festuca</i>	52	1	1	2	1	3	3	5	5	9	19
<i>Artemisia</i>	2	58	1	1	4	13	3	4	9	3	2
<i>Corylus</i>	3	1	38	20	20	1	1	5	1	9	1
<i>Alnus</i>	4	3	21	29	19	3	1	6	1	11	2
<i>Betula</i>	4	4	19	15	37	3	1	5	1	9	2
<i>Salix</i>	5	8	1	0	5	51	13	3	6	7	1
<i>Populus</i>	16	4	0	1	1	16	28	4	16	8	6
<i>Acer</i>	8	5	6	7	4	4	5	29	4	23	5
<i>Juniperus</i>	16	19	0	0	0	4	10	2	36	3	10
<i>Quercus</i>	7	2	10	6	3	3	3	14	2	48	2
<i>Pinus</i>	13	2	0	1	1	1	1	1	3	1	76

Predicted label

True label

Table S2. Confusion table for pollen taxa identification using fluorescence spectrum.
Multiclass accuracy 67 %

Plant genus	<i>Festuca</i>	<i>Artemisia</i>	<i>Corylus</i>	<i>Alnus</i>	<i>Betula</i>	<i>Salix</i>	<i>Populus</i>	<i>Acer</i>	<i>Juniperus</i>	<i>Quercus</i>	<i>Pinus</i>
<i>Festuca</i>	84	2	0	0	0	0	1	5	3	0	5
<i>Artemisia</i>	2	80	0	0	0	1	3	6	8	0	0
<i>Corylus</i>	2	0	53	15	7	6	1	0	1	14	1
<i>Alnus</i>	1	0	14	45	19	3	4	1	1	10	2
<i>Betula</i>	3	1	7	29	38	3	4	0	1	12	2
<i>Salix</i>	0	2	7	2	3	72	9	0	1	4	0
<i>Populus</i>	2	9	3	2	2	17	53	4	4	3	1
<i>Acer</i>	6	3	1	0	1	0	2	84	2	1	0
<i>Juniperus</i>	6	5	0	0	1	0	3	0	84	0	1
<i>Quercus</i>	1	0	12	13	9	6	2	0	1	55	1
<i>Pinus</i>	11	0	0	0	1	0	0	0	1	1	86

Predicted label

True label