

Supplementary Material

Anatomical Variations in Leaves of *Pisum sativum* Grown with Wastewater of Different Industrial

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Table S1 Distribution pattern of tissues of the tip of leaf blade of leaves of *Pisum sativum* treated with wastewater of different industries.

Name of tissue	S0	S1	S2	S3	S4	S5
Upper epidermis	Healthy and normal	Damaged	Normal but thin-walled cells	Thin walled with some distorted cells	Healthy and normal	Normal but some thick-walled cells
Palisade parenchyma	Healthy cells	Distorted cells	Healthy with some thick-walled cells	Reduced and thick-walled cells	Healthy cells	Normal thick walled and large size cells
Spongy parenchyma	Healthy cells	Healthy but shriveled	Normal and healthy cells	Reduced and distorted cells	Normal but some thick walled cells	Normal and some large size cells
Vascular bundle	Xylem	Normal	Not visible clearly	Normal	Absent	Shriveled in size but normally visible
	Phloem	Normal but little distorted	Not visible clearly	Normal	Absent	Shriveled in size but normally visible
Cortex	Healthy and broad cells	Distorted and irregular cortical cells	Healthy but shriveled in size	Distorted cells and reduced cortical region	Healthy and normal sized cells just less cortical area than S0	Reduced cortical area with thin-walled cortical cells
Lower epidermis	Normal healthy cells little dispersed from sites of stomatal pores	Healthy and thick-walled cells with less stomatal pores	Healthy and smooth	Reduced in size	Healthy and smooth with single celled Trichome like outgrowth	Cells with thin walled and seems damaged from some points
Midrib	Present and well developed	Present but damaged	Present and developed	Absent	Present and developed	Present and developed

Table S2 Distribution pattern of tissues of the center of leaf blade of *Pisum sativum* treated with wastewater of different industries.

Name of tissue	S0	S1	S2	S3	S4	S5
Upper epidermis	Healthy and normal	Damaged	Normal but thin-walled cells	Thin walled with some distorted cells	Healthy and normal	Normal but some thick-walled cells
Palisade parenchyma	Healthy cells	Distorted cells	Healthy with some thick-walled cells	Reduced and thick-walled cells	Healthy cells	Normal thick walled and large size cells
Spongy parenchyma	Healthy cells	Healthy but shriveled	Normal and healthy cells	Reduced and distorted cells	Normal but some thick walled cells	Normal and some large size cells
Vascular bundle	Xylem	Normal	Shriveled in size	Present but not clear	Shriveled in size but normally visible	Larger in size than others
	Phloem	Normal but little distorted	Normal	Shriveled	Present in little distorted form	Larger in size than others
Cortex	Healthy and broad cells	Distorted and irregular cortical cells	Healthy but shriveled in size	Distorted cells and reduced cortical region	Healthy and normal sized cells just less cortical area than S0	Reduced cortical area with thin-walled cortical cells
Lower epidermis	Normal healthy cells, little dispersed from sites of stomatal pores	Healthy and thick-walled cells with less stomatal pores	Healthy and smooth	Reduced in size	Healthy and smooth with single celled Trichome like outgrowth	Cells with thin walled and seems damaged from some points
Midrib	Present and well developed	Present but damaged	Present and developed	Present and developed	Present and developed	Present and developed

Table S3 Distribution pattern of tissues of the base of leaf blade of *Pisum sativum* treated with wastewater of different industries

Name of tissue	S0	S1	S2	S3	S4	S5
Upper epidermis	Healthy and normal	Damaged	Normal but thin-walled cells	Thin walled with some distorted cells	Healthy and normal	Normal but some thick-walled cells
Palisade parenchyma	Healthy cells	Distorted cells	Healthy with some thick-walled cells	Reduced and thick-walled cells	Healthy cells	Normal thick walled and large size cells
Spongy parenchyma	Healthy cells	Healthy but shriveled	Normal and healthy cells	Reduced and distorted cells	Normal but some thick walled cells	Normal and some large size cells
Vascular bundles						
Xylem	Normal	Normal	Normal	Normal	Normal	Larger in size than others
Phloem	Normal	Normal	Normal	Normal	Normal	Larger in size than others
Cortex	Healthy and broad cells	Distorted and irregular cortical cells	Healthy but shriveled in size	Distorted cells and reduced cortical region	Healthy and normal size cells just less cortical area than S0	Reduced cortical area with thin-walled cortical cells
Lower epidermis	Normal healthy cells little dispersed from sites of stomatal pores.	Healthy and thick-walled cells with less stomatal pores	Healthy and smooth	Reduced in size	Healthy and smooth with single celled Trichome like outgrowth	Cells with thin walled and seems damaged from some points
Midrib	Present and well developed	Present but damaged	Present and developed	Present but developing	Present and developed	Present and developed