

DEHYDRATION EFFECT
ON THE INTERNAL CELL PRESSURE

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S u m m a r y

The dependence of the turgor pressure on the water content in a cellular structure is studied experimentally. The turgor pressure is found to decrease as the water content in a cell diminished. The experimental result is analyzed in the framework of a two-component cell model. The cell wall deformation is demonstrated to make a main contribution to the turgor pressure, so that a drop of the turgor pressure is a consequence of the stress relaxation in the cell wall.