## Polymers and steam cells

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The question of burials is considered sacred by di erent cultures, beliefs and religions. Cremation is an option less aggressive to the environment when compared to the conventional procedure, as it does not yield conventional residues and pathogenic microorganisms. However, this practice has been questioned and even condemned by some religions. Yet, the conventional burial system causes the contamination of the soil by the necroslurry; a viscous and polluting liquid, composed mainly of cadaverine an amine  $(G_{H_1A}N_2)$  of repulsive odor. Its viscosity is due to internal chemical reactions, which produce polymers, which makes it di cult to be transported and removed from soil and groundwater. Again, cremation seems to be a feasible solution for the problem. Nevertheless, this procedure causes the loss of genetic cells. It hinders, for example, the de nition of paternity and/or the treatment of diseases through the removal of stem cells from cadavers that, according to recent research, can be reactivated and transformed in any kind of cells or tissues of the body in good condition. A new technology for the vertical burial system which is currently being developed in Brazil, allows the gas exchange and controls humidity, pressure and temperature inside shrouds, causing an aerod decomposition that eliminates environmental contaminations, reducing environmental impacts, diseases and odors. e sealed system demands theapplication of berglass plates and polymers, which are resistant, elastic, and suitable to absorb the coe cient of expansion of the system, preventing any leakage due to retraction. is method also allows the storage of genetic cells, proving to be a good solution for health problems as well as environmental, religious and cultural issues framing this matter.

Biography

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