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to give out the same value in gaseons emanations that it takes in as an atmosphere. Supply this radio active demond, and man cannot suffer contraction in the circulation of cell division.

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We are impressed with the thought that a cure for consumption, yea, of all diseases, and even the "elixir of life," is already in man's possession, but owing to his imperfect comprehension of that which supports life, he has failed to recognize its value.

Prof. Burke of Cambridge University has succeeded in producing living cells by the introduction of radium into culture media prepared after the formula of bacteria culture media: The diameter of the cells is said to be the one sixty-one-thousandth of an inch. This diameter shows an equal condensation of the construction of the atmosphere and of the contents of the nucleus of the animal cell as the squares of 5 and 6 multiplied by the 1000 atoms that possess the same dimention as the Spherical Bacteria cell.

The redistribution of electro magnetic particles in the human construction on a radio active halance must restore to man his first perfect construction. Prof. Burke has succeeded in raising "the dead" to a living construction, because he had in the culture media parts of the once living animal form, and the radio active element, salt. Radium could not therefore have been the origin of life in the earth.

THE SO-CALLED INVOLUTION FORMS.

In the "involution forms," found in bacteria cultures, we have still greater proof of the government of the bacteria cell, in the construction of the animal cell. That bacteria generates chemicals which react on the cells, and cause them to group in larger numbers, and so bring forth a higher form of life is shown by the shape of the "involution forms." These take the shape of certain species of the Foraminifera, and the Foraminifera construct their shells on the same basis of increase in number of segments as characterize the division of an Micrococci. Bacteria are divided into 3 groups, as Spheres, Rods, and Spirals; but two Spheres make a Rod, and 3 Spheres make a Spiral, so that we find Bacteria cells in groups of 1, 2, and 3. That assures a radio active construction, and we find that Bacteria are divided into 4 classes because of their absorption of the hydrogen and the oxygen atoms.

Here we find the establishment of the equilibrium of the construction that was destined to live always in the waters; the construction that was to he able to live either in the water or part of the time on the land; the construction that was to live always on the land; and the construction that could live part of the time on land and part of the time in the water. These constructions we find evidenced in the 4 classes as Obligative Anaerobes, Facultative Anaerobes, Obligative Aerobes, and Facultative Aerobes.

The fermentation bacteria produced the heat necessary for the establishment of a temperature in the waters.

The Photogenic or light producing phosphoreseing bacteria generated that form of light that was first, or before there was a sun.

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