





Cold atmospheric plasmas are weakly ionised gases that can be used for surface treatment, gas depollution, space propulsion, and more recently, to address issues in biology and medicine. The research field that investigates the therapeutic potential of these plasmas is known as plasma medicine. This combines plasma science, clinical medicine, and life sciences with the long term aim of building a unified knowledge. Plasma physicists and chemists, biologists and physicians collaborate closely to reach the same objective; The development of innovative plasma therapies where usual radiology, chemotherapy, and ablative surgery fail. The complementarity of their skills is that the service of applications such as blood coagulation, wound healing, dentistry, oncology, cosmetic surgery, infectious and inflammatory diseases. In the first lecture of this part of the course, a global overview of plasma medicine will be proposed. This should allow students in biology and medicine to discover what is plasma science and technology and guide students in physics and chemistry to appreciate the outstanding potential of cold plasmas in medicine. In the second lecture, applications of wound healing, dentistry, and oncology will be specifically discussed. This lecture will be presented by Terry Dufour.

Notes

Summary



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