



“International Fascial Net Plastination Project: The Challenges and Achievements” - abstract

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The contribution of fascia and its elements to many areas of biomechanics and physiology has been underestimated over many years (Schleip et al., 2012). Recently, the interest in research on fascia increased drastically and the range of research on fascia and fascia-related connective tissue includes biomechanics, innervation, vascularisation, molecular structure, clinical relevance, etc. (Kumka & Bonar, 2012).

In order to represent the human fascial net as a three-dimensional anatomical structure in a highly educational setting, and under the guidance of some world leaders in this dynamic field, a collaboration was established between the Fascia Research Society, Body Worlds Exhibition (Heidelberg), and the Plastinarium (Guben). In this project we aspired to explain the functional concepts of the fascial tissues, emphasizing the continuity and myofascial force transmission, also exposing the clinically related features, such as musculo-elastic components, fascial compartments, fascial neuro-vascular sheaths as transmitters of the inflammatory processes, etc. Although the diversity of application of the plastination technique theoretically has no limits (Nader et al., 2019) practically we experienced many challenges during the process of plastination.

Plastination of the different types of connective tissue was performed according to the standard S10 plastination technique, initially described by Gunther von Hagens with some modifications adjusting the process for collagen-rich tissue plastination (von Hagens, 1979).

References:

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