SAMPLING MODULE FOR EXTRACTING INTERSTITIAL FLUID

ABSTRACT OF THE DISCLOSURE

A sampling module for extracting interstitial fluid (ISF) from a user's body includes a housing assembly and a pressure ring assembly operatively contained within the housing assembly. The pressure ring assembly includes a penetration member configured for penetrating a target site of the user's body and, subsequently, residing in the target site and extracting ISF therefrom. The pressure ring assembly also includes a pressure ring configured for applying pressure to the user's body in a first vicinity of the target site and a floating ring with an adhesive layer disposed on it's distal end. The adhesive layer of the sampling module provides for adhesive attachment of the floating ring to the user's body in a second vicinity of the target site, thereby influencing target site deformation during use of the sampling module.

Figure 1