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Many challenges are presented by simultaneous recordings at multiple scales in humans. One concerns long-term EEG (Electroencephalography) measurement during SEEG (Stereoelectroencephalography). Today's electrodes require skin preparation and the use of conducting gels which are not really ideal for long-term recordings. One solution consists of using conducting polymers to design a new type of dry electrode. We adapted small dry electrodes, already used for multisite recordings in the auditory cortex in animals single site recordings on the cochlear nerve during surgery of skull base and polysomnographic recordings. We discuss the influence of conducting polymer on the quality of the recordings.