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THE HUMAN TOPONOME PROJECT: TRANSLATING THE SPATIAL PROTEIN NETWORK CODE INTO EFFICIENT THERAPIES

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Imaging cycler® technology (IC®M) is presented as key technology: for the spatial resolution of large protein networks at the target sites of disease with a discriminatory power for an unlimited number or proteins at a time (dimension unlimited imaging); for the in situ detection of thousands of distinct multi protein complexes; for the construction of machines able to decode the mechanism of cell invasion into organs, such as the invasion of autoimmune cells and cancer cells; for the application of this technology for the efficient finding of therapies selectively blocking these invasions. The example of amyotrophic lateral sclerosis (ALS) is presented showing that ALS cells were seen by IC® for the first time in the blood, the mechanism of CNS invasion and pathogenic neuronal axotomy of these cells was completely decoded by IC®, and these ALS cells were efficiently depleted in blood of patients. This ALS example can be translated for other diseases based on cell invasion. The IC® detection of somatotopic coding in the innate immune system is key.

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