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Translation of biotechnology into clinical condensed matter physics of ALS, impact for efficient therapy

Molecular Unlimited Systems-Imaging Cyler (IC[®]) robotics, a toponome imaging system, decodes the hitherto unknown and unexpected dark space of diseases at $>4.5 \times 10^6$ to the 481 combinatorial molecular resolution *in situ/in vivo*. As shown for ALS, the dark space is not a nihility or nothingness, but an almost continuous ontological contexture, a quasi-infinite parallelism of polyphony, which can be translated into efficient therapies, and in clinical condensed matter physics of ALS. An ALS patient was treated on this basis by depletion therapy of axotomy – competent cells (ACC) detected by an IC robot resulting in durable recovery. All tested ALS patients display these cells in their blood. The introduced approach is likely to be an efficient new therapeutic approach based on hypothesis-free methods of ALS-systems analysis on a large scale in topologically intact tissue structures, as required for approaches to condensed matter physics of living matter.

Recent Publications

1. Schubert W, Bonnekoh B, Pommer A J, Philipsen L, Boeckelmann R, Maliykh J, Gollnick H, Friedenberger M, Bode M and Dress A W (2006) Analyzing proteome topology and function by automated multidimensional fluorescence microscopy. *Nat Biotechnol* 24:1270-1278.
2. Friedenberger M, Bode M, Krusche A and Schubert W (2007) Fluorescence detection of protein clusters in individual cells and tissue sections by using toponome imaging system: sample preparation and measuring procedures. *Nat Protoc.* 2(9):2285-94.
3. Hillert R, Gieseler A, Krusche A, Humme D, Röwert-Huber H J, Sterry W, Walden P and Schubert W (2016) Large molecular systems landscape uncovers T cell trapping in human skin cancer. *Sci Rep.* 6:19012.
4. Schubert W (2015) Advances in toponomics drug discovery: Imaging cyler microscopy correctly predicts a therapy method of amyotrophic lateral sclerosis. *Cytometry A* 87(8):696-703.
5. Schubert W (2018) A platform for parameter unlimited molecular geometry imaging obviously enabling life saving measures in ALS. *Advances in Pure Mathematics* 8(3).

Biography

Walter Schubert is Director of the International Human Toponome Project, Munich, Germany. Based on observations on the island of KOS, Greece, in 1987 he formulated the sun light hypothesis, and derived Imaging cyler robotics for simultaneous imaging of millions of molecular signals in one and the same sample, e.g. in diseased tissues of ALS: the technology applying millions of quasi channels to reveal the toponome. He is an Emeritus Professor for toponomics of the International Faculty, CAS-MPI Partner Institute for Computational Biology, Shanghai, China, and HD in Germany. He has received many national and international awards, honors and has 150 publications, and holds many technology and therapy patents.

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