

The Equivalent Circuit Code of the Living State (ECCO)

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We are familiar with the term *genetic code* which specifies the order of amino acids as they appear in proteins, as specified and directed by the sequence of gene bases in DNA, and in the associated RNA templates. Here I introduce another and separate influence on the living state, from the controlling reactions in the specific energy carried by seven large molecular groups. The groups are : membrane, mitochondria, RNA, DNA, immune globulins, hyaluronic acid, and free radicals. The transport of this energy is controlling and determines the growth and health of the organism. Absence of the flow of this energy produces diseases. Restoration of the energy flow requires discovery of the energy carriers.

We have discovered several of these carriers.:

1. Polymva carries charge from mitochondria Complex 2 to DNA.
2. Rux carries charge from free radicals to the mitochondria.
3. Toroglobulin carries charge from membrane lipids to histone proteins in the chromosome nucleosomes.
4. Hyaluronic acid is a dielectric allowing charge exchange.

Each carrier has unique electronic device properties. Rux is an inductor. Toroglobulin is a capacitor. It is not surprising that they interact and together form an oscillating circuit. This is usually called a tank circuit. What is surprising is that as they interact they form new structures which are visible under phase microscopy. They form floral structures as shown here. We now have graphic material showing that electronic reactions have a hidden role in biological development. We also have a flow sheet for opportunities in new drug development.