## SLOW MEDICINE

FIRENZE, FEBBRAIO 2020 PIER LUIGI LUISI, INTRODUCING

#### The Systems View of Life

By the best-selling author of The Too of Physics and The Web of Life, and the author of The Emergence of Life and Mind and Life

Over the curt 50 years, a management appropriate of the late emerged arche for strong of security. So exemples the health property to completely, active strong authorisms of expension to be larger to a condition of the form." Surface,

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Fritjof Capra and Pier Luigi Luisi

## The Systems View of Life

A Unifying Vision



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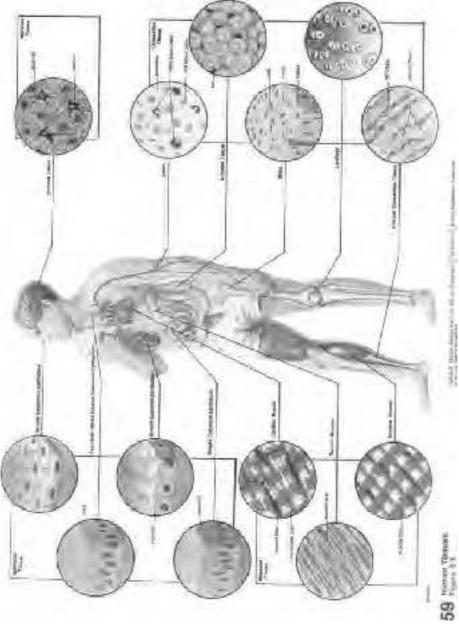
Capra and Luisi

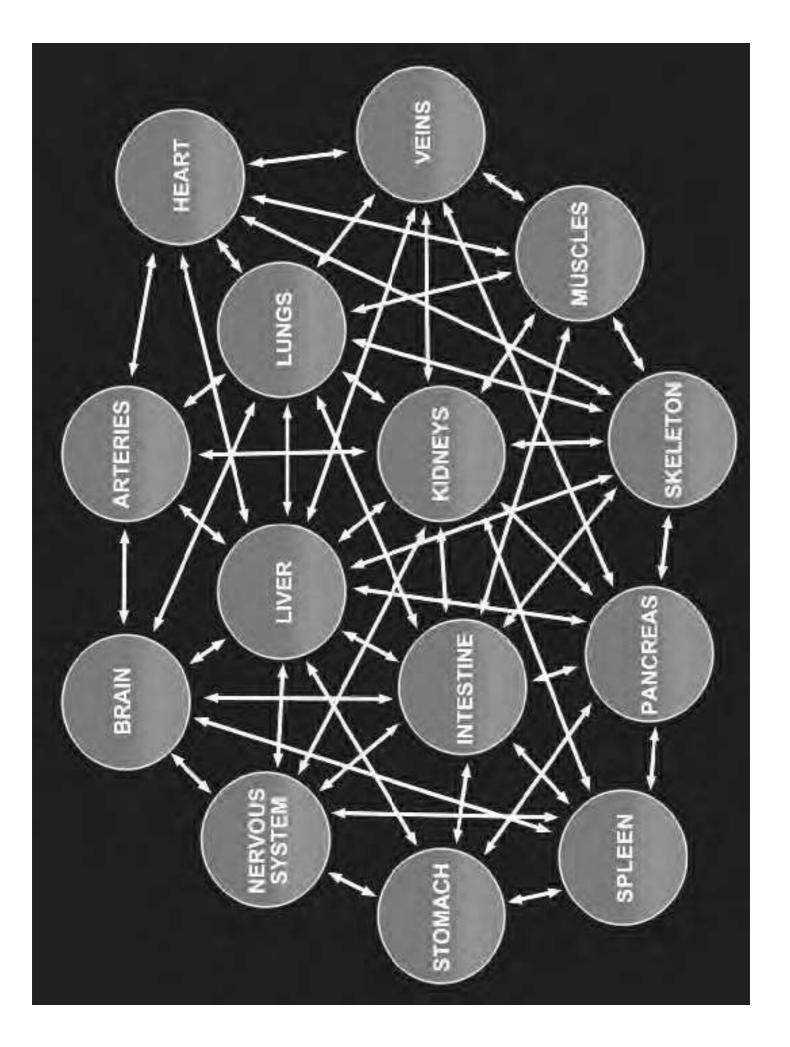
The Systems View of Life

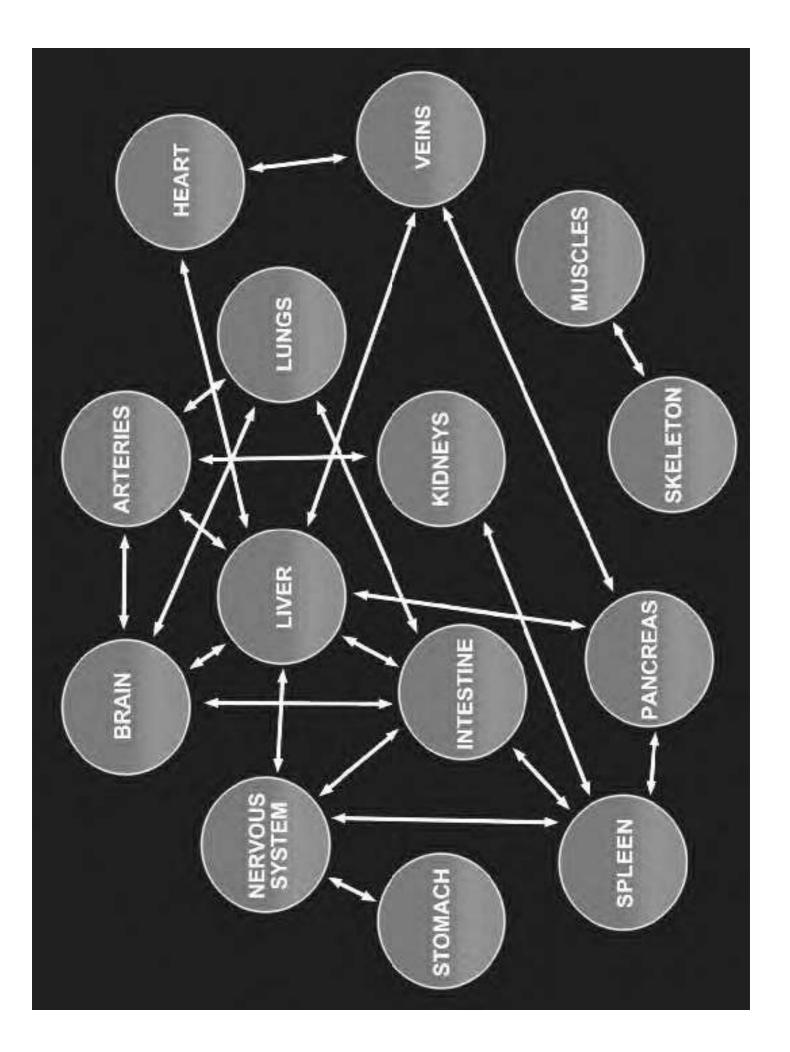
# VITA E NATURA UNA VISIONE SISTEMICA Predict Capeta

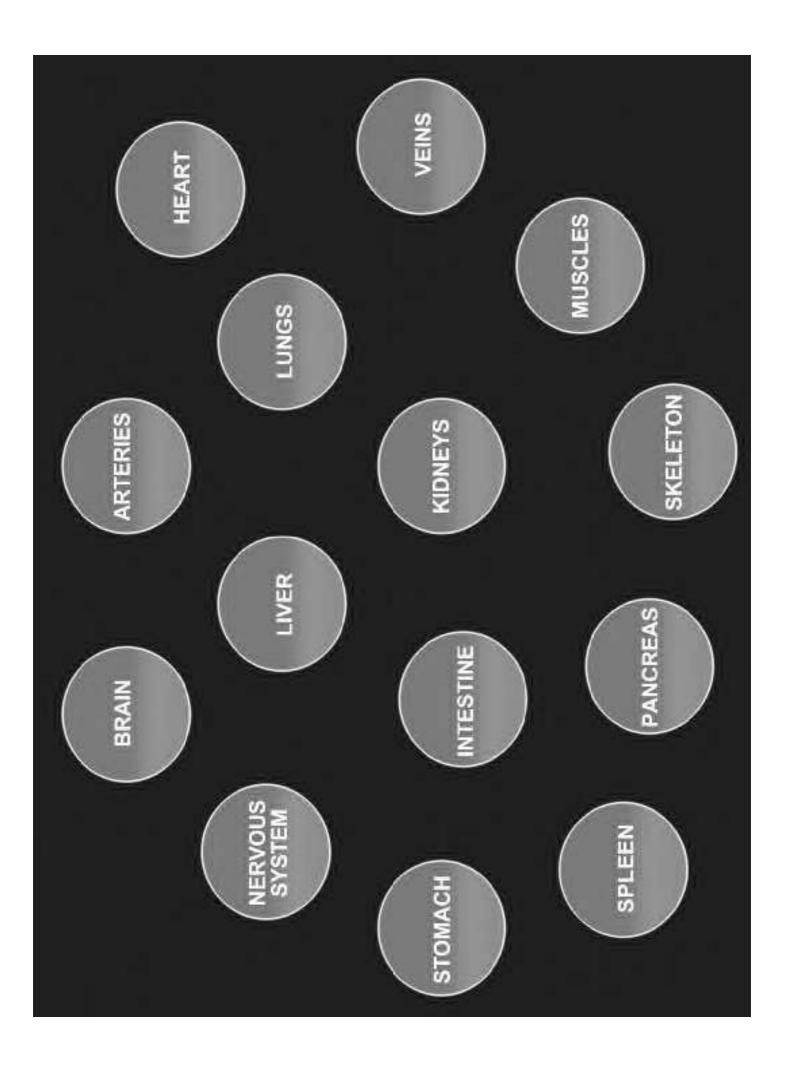


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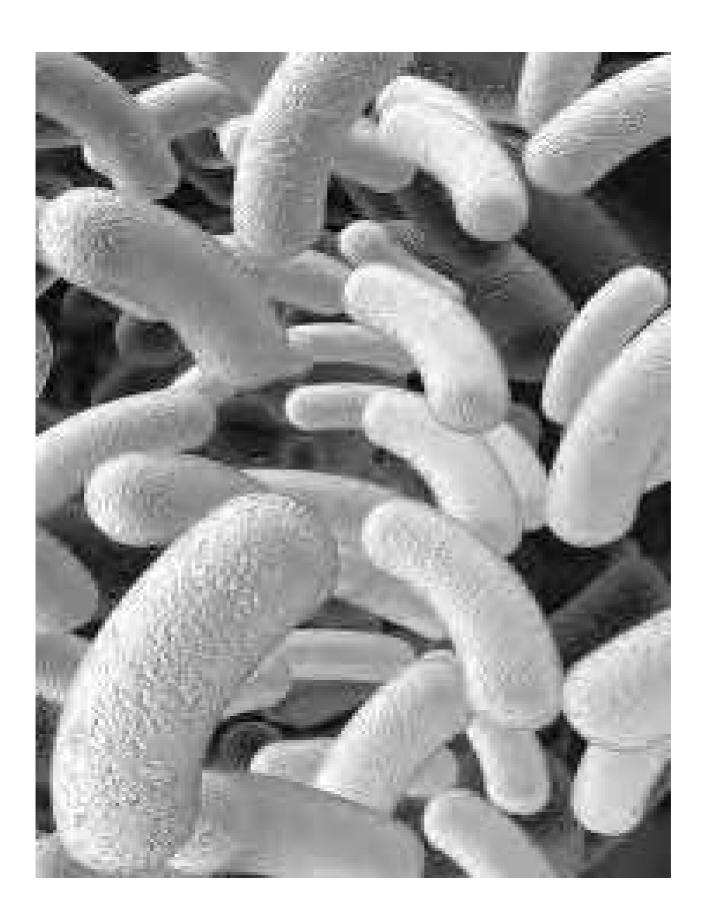




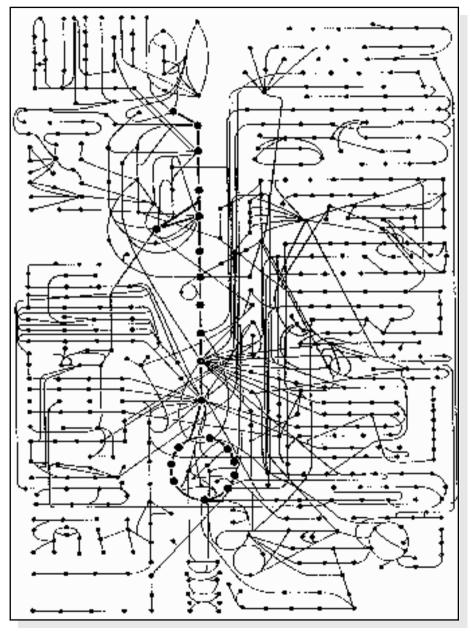
Most of the Vedanta teachings, and also of Buddhism, sees reality as a web of causal interactions, so that all elements of the world are part of a unique gigantic dynamic network.

This unitarian view has been in large part maintained till our time. Influencing also medicine and even science.

- Instead, science and philosophy in the western world, been dominated for the last centuries by the Cartesian (Galileo, Newton) mechanistic perspective bas on the scientific analytical procedure.
- Accordingly, to study a complex system, one has to analyse the single parts individually, and the knowledge of the whole is given by the sum of the knowledge of the single parts.
- With a drastic division between body and mind (rex cogitans an rex extensa).
- Medicine became a matter of the body.



A maze illustrating the chemical reactions that interconvert small molecules in cells.



fatto: La disfunzione di un enzima produce la malattia

pproccio meccanicistico della medicina classica: udiare come funziona l'enzima, cercare I farmaci specifici, er inibirlo, o potenziarlo, eventuale approccio genetico

pproccio sistemico: perchè è avvenuto questo? Come evenirlo e curarlo uali sono le cause individuali, anche psicosomatiche, a anche il contesto ambientale e sociale?

Cos'e' la salute? La si può definire in termini analitici e quantitativi Pensare alla salute in analogia alla vita stessa

Come esperienza soggettiva di equilibrio dinamico, cognitivo e continuo,

in interazione continua con l'ambiente e la società

Causality is indeed a central pillar of most philosophical Buddhism. In particular, the Buddhist *pratiya-samutpada* recites the following:

"if there is this, there is that; if there is that, there is this"-

implying namely not only a linear causality, and co-dependent arising, but also a kind of feedback, typical of the systemic thinking.

consider the cumulative effect of the two complementary concepts of codependent arising (pratityasamutpada) and that of impermanence (anitya):

if all things are mutually linked and causally interdependent, but at the same time they continuously change, then the entire universe is not made by isolated, independent things, but is a dynamic, totally interactive process.

### The new scientific thinking from 1930 on

- John von Neumann (1903-57)
- Gregory Bateson (1904-1980)
- Heinz von Foerster (1911-2002)
- Alan Turing (1912-54)
- Norbert Wiener (1894-1964)
- Paul Weiss (1901-2002)
- Jean Piaget (1896-1980)
- Ilya Prigogine (1917-2003)
- Maturana (1928) and Varela(1946-2001)
- emphasizing self-organization, holistic complexity, systems thinking, emergent properties, collective properties, non-linearity