

Associations for the Reciprocal and Mutual Sharing of Advantages and DisAdvantages

Associations for the Reciprocal and Mutual Sharing of Advantages and DisAdvantages

ARMSADA

➡ A Fruitful Predictive Paradigm

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European Union for Systemics UES-EUS, Brussels, Belgique,

World Organisation of Systems and Cybernetics WOSC, Lincoln, UK

International Academy for Systems and Cybernetic Sciences IASCYS, Wien, Österreich



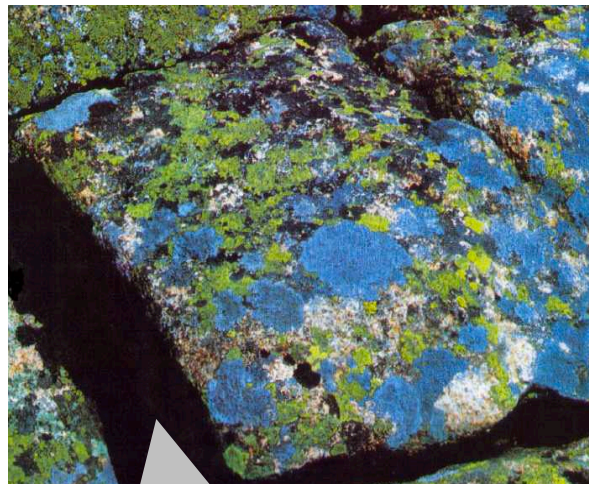
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World
Organisation
of Systems and
Cybernetics
WOSC

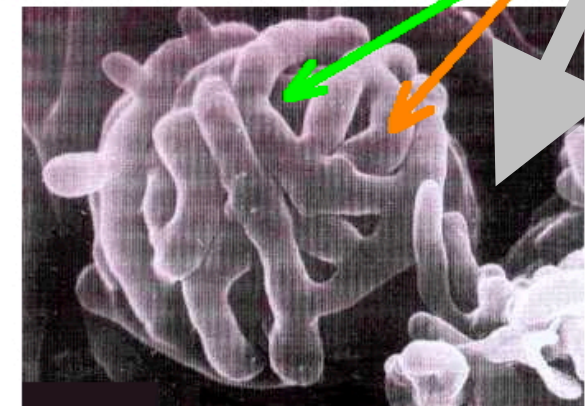
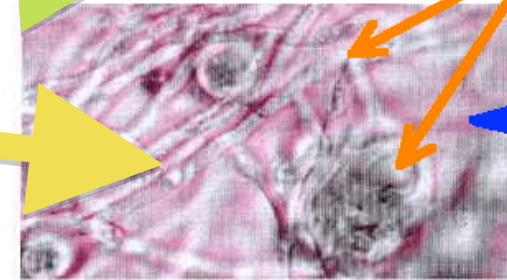
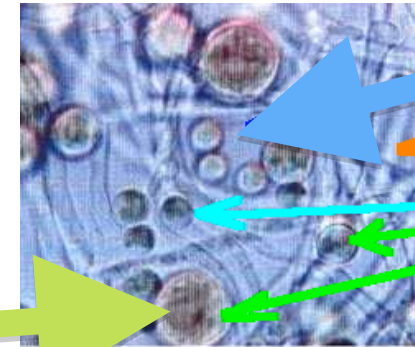
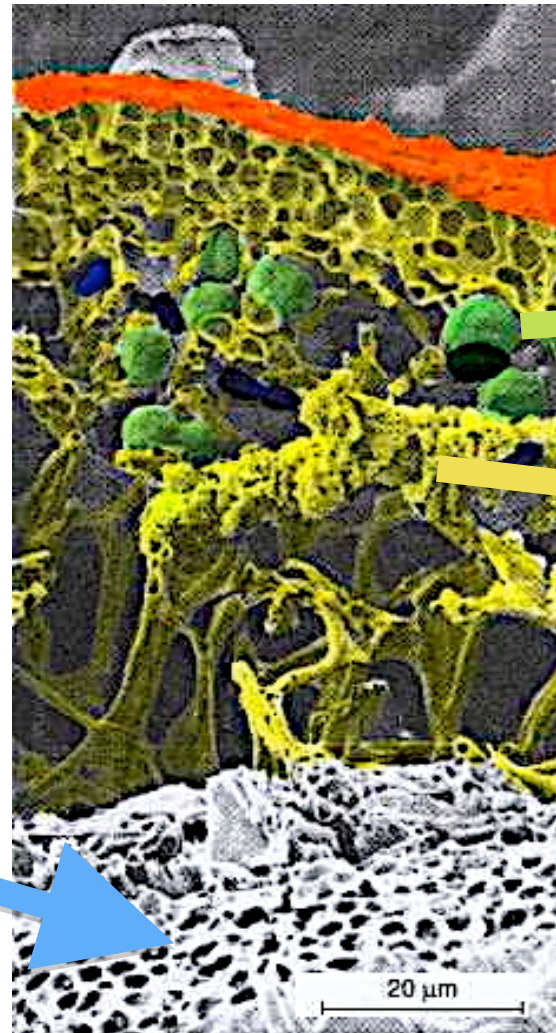


1.1. A LICHEN is NOT a WIN-WIN association BUT AN ARMSADA



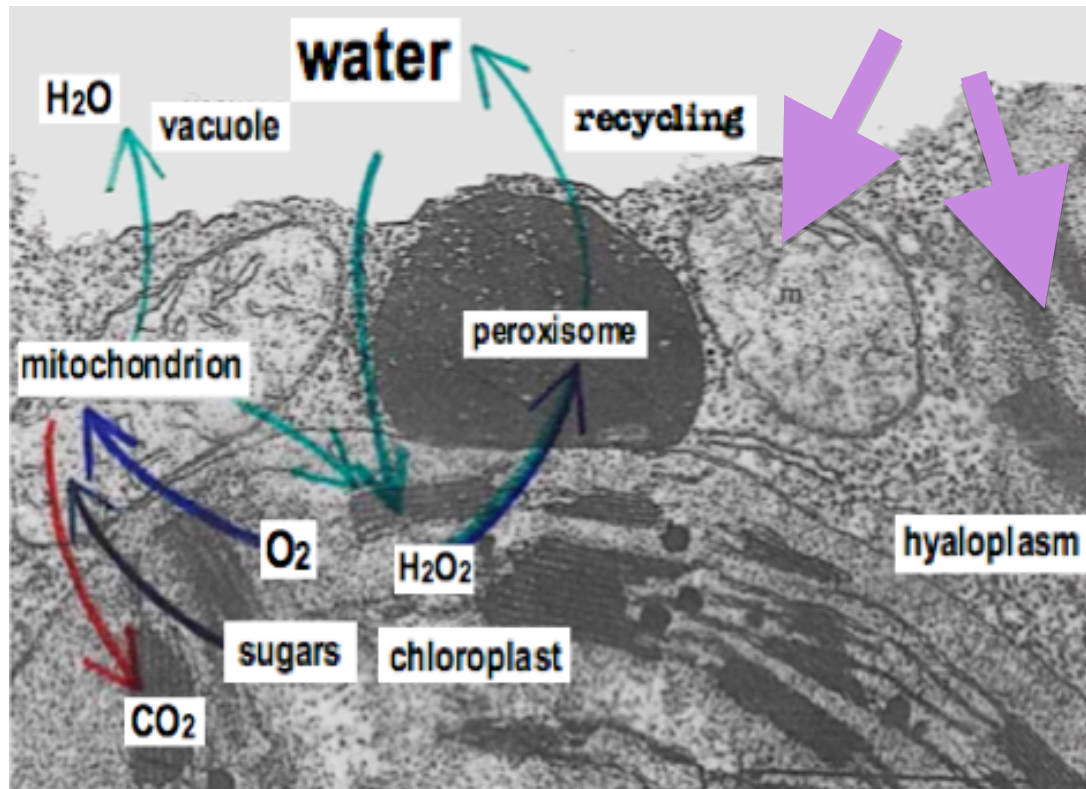
ECO-EXO-TOPE
ENDO-PHYSIO-TOPE
1998

Bricage P. (1998) La Survie des Systèmes Vivants.
Atelier fondateur MCX20 "Prendre soin de l'homme"
Centre Hospitalier Général de Pau



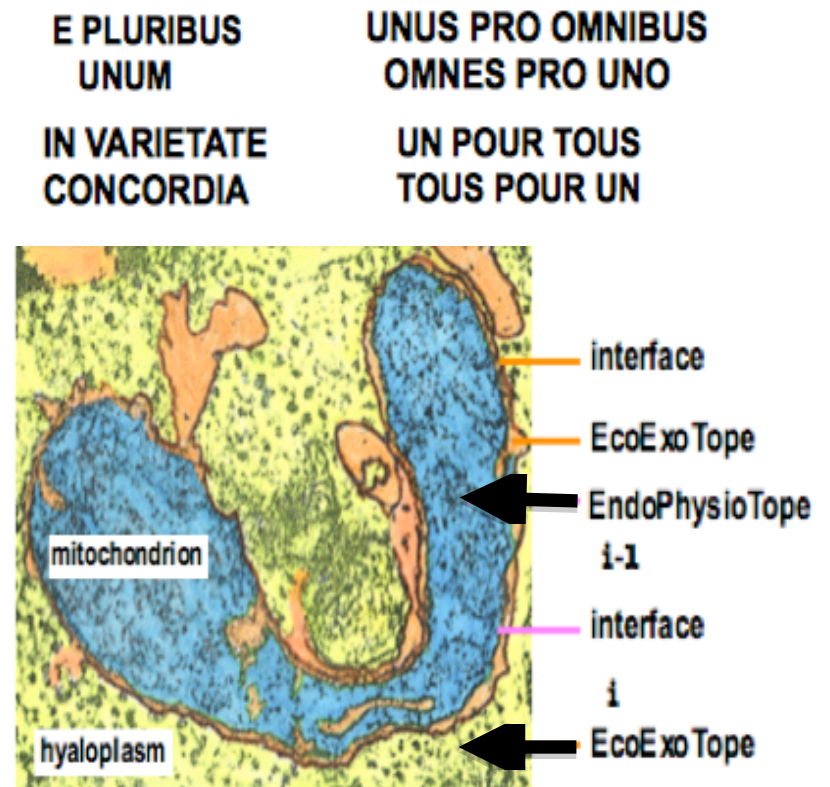
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1.2. A CELL IS AN ENDOSYNCENOSIS, AN ECOSYSTEM of ORGANISMS



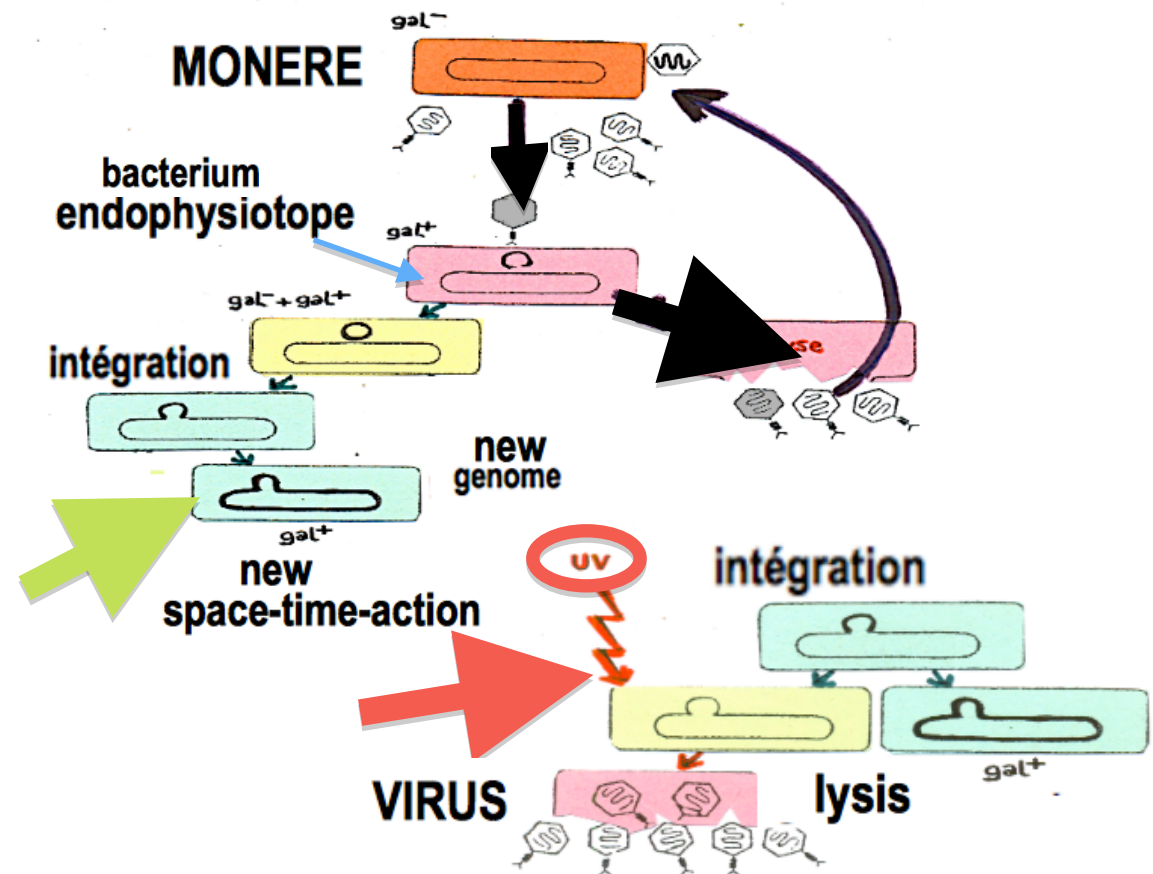
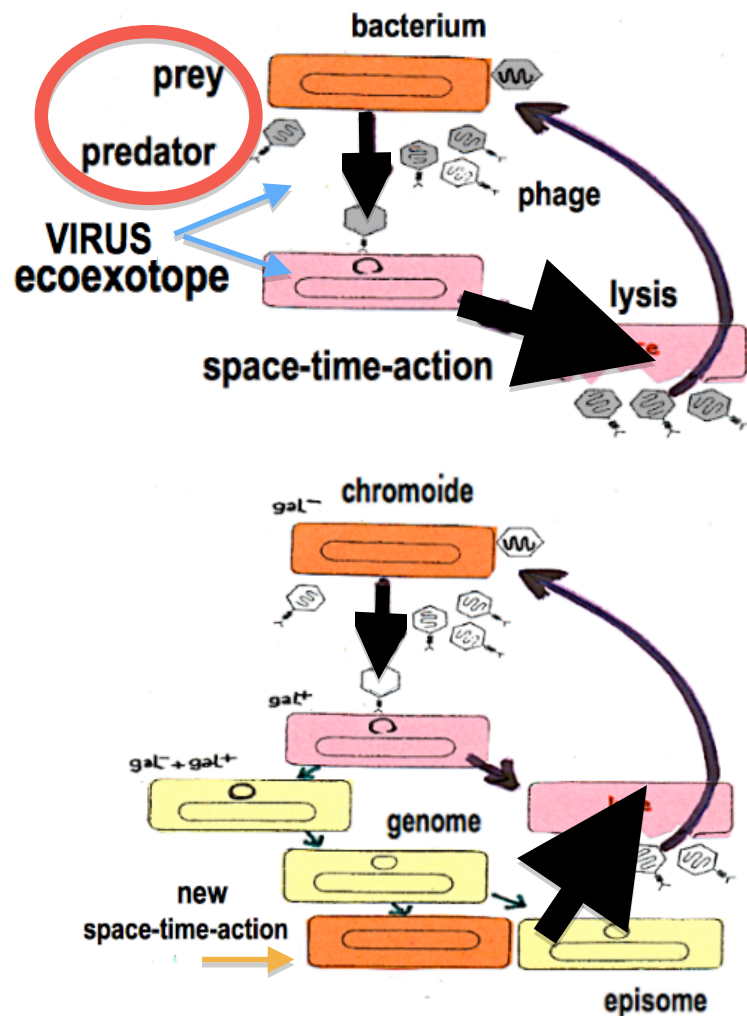
Bricage P. (1986) Isoperoxidases, markers of surrounding and physiological changes, in situ in leaves and in vitro in calli of *Pedilanthus tithymaloides* L. *variegatus*: cell compartmentation and polyfunctionality, control of activity by phenols, specific roles. p. 261-265. Molecular & Physiological Aspects of Plant Peroxidases, Univ. Genève, (ISBN 2-88164-001-X)

ISSS July 18-23, 2010, Wilfrid Laurier University, Waterloo, ON, Canada. Balancing Individualism and Collectivism: ARMSADA



**FOR THE ONE TO SURVIVE
THE OTHER ONE MUST SURVIVE FIRST
AND RECIPROCALLY 2000**

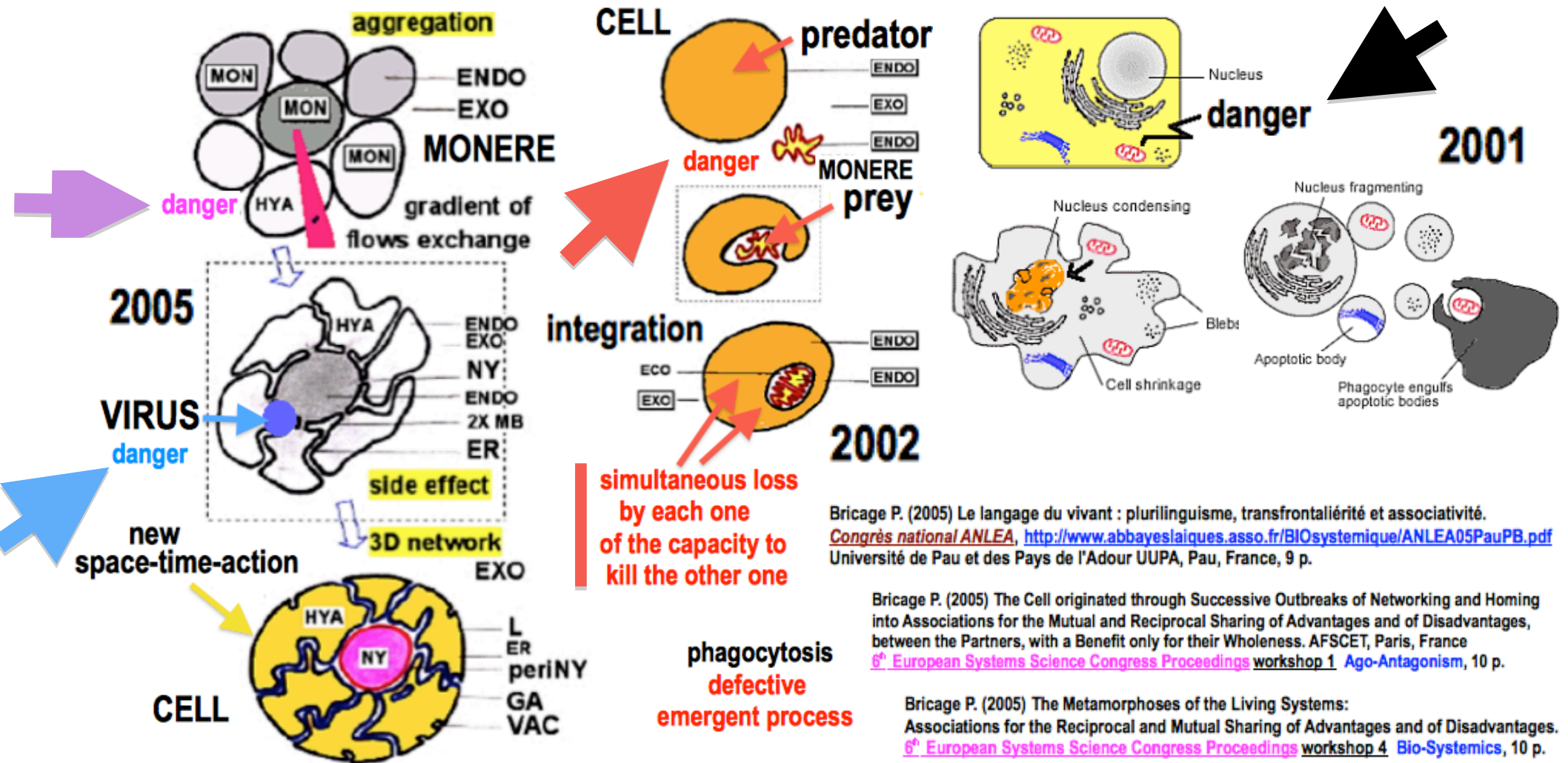
1.3. PREDATOR-PREY INTERACTION: BACTERIOPHAGES AND BACTERIA



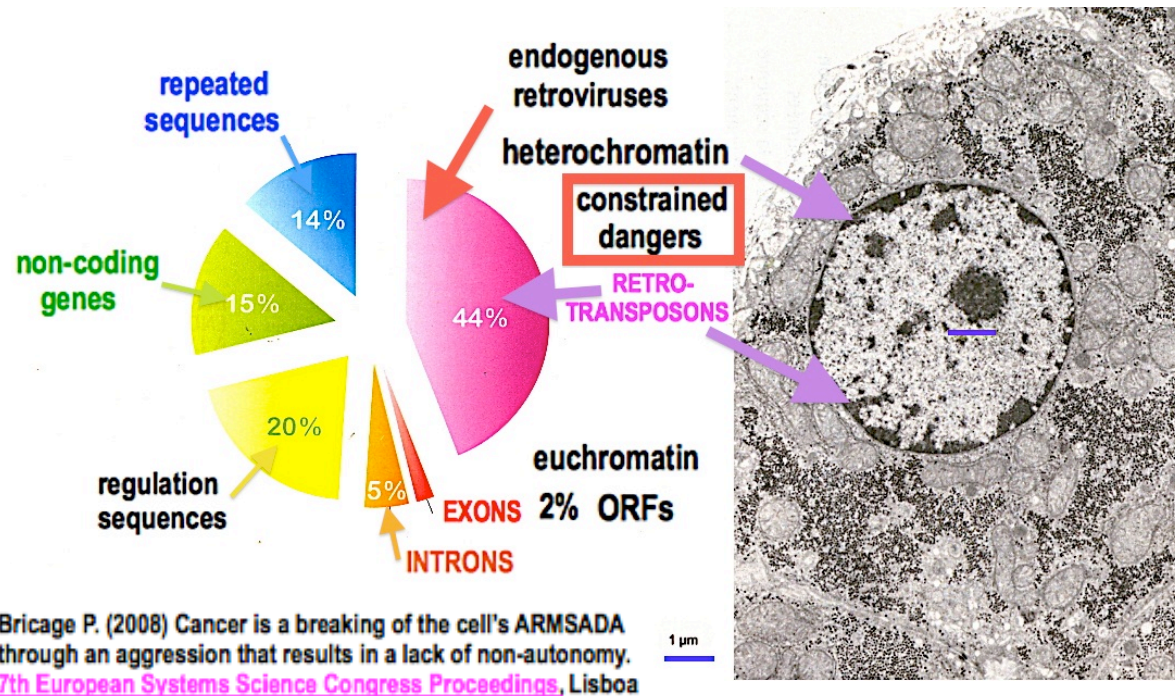
Bricage P. (1991) Les Caractéristiques des Organismes Vivants. Faculté des Sciences UPPA, Pau
Bricage P. (2000) La survie des organisme vivants. Faculté Médecine Saints-Pères, AFSCET, Paris
Bricage P. (2003) Organisation, intégration et espace-temps des systèmes vivants. Journées AFCSET, Andé

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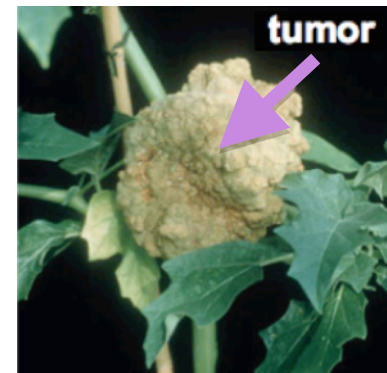
2.1. CELL: ORIGIN AND APOPTOSIS



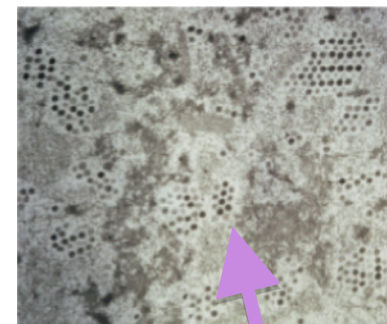
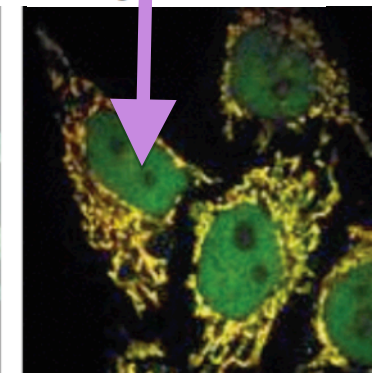
2.2. CELL: GENOMES CONSTRAINED DANGERS AND CANCERISATION



un-controlled
de-constrained
dangers

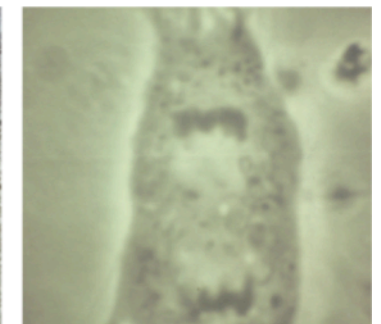


abnormal
cell
compartments



2008

virus



cell
uncontrolled
proliferation

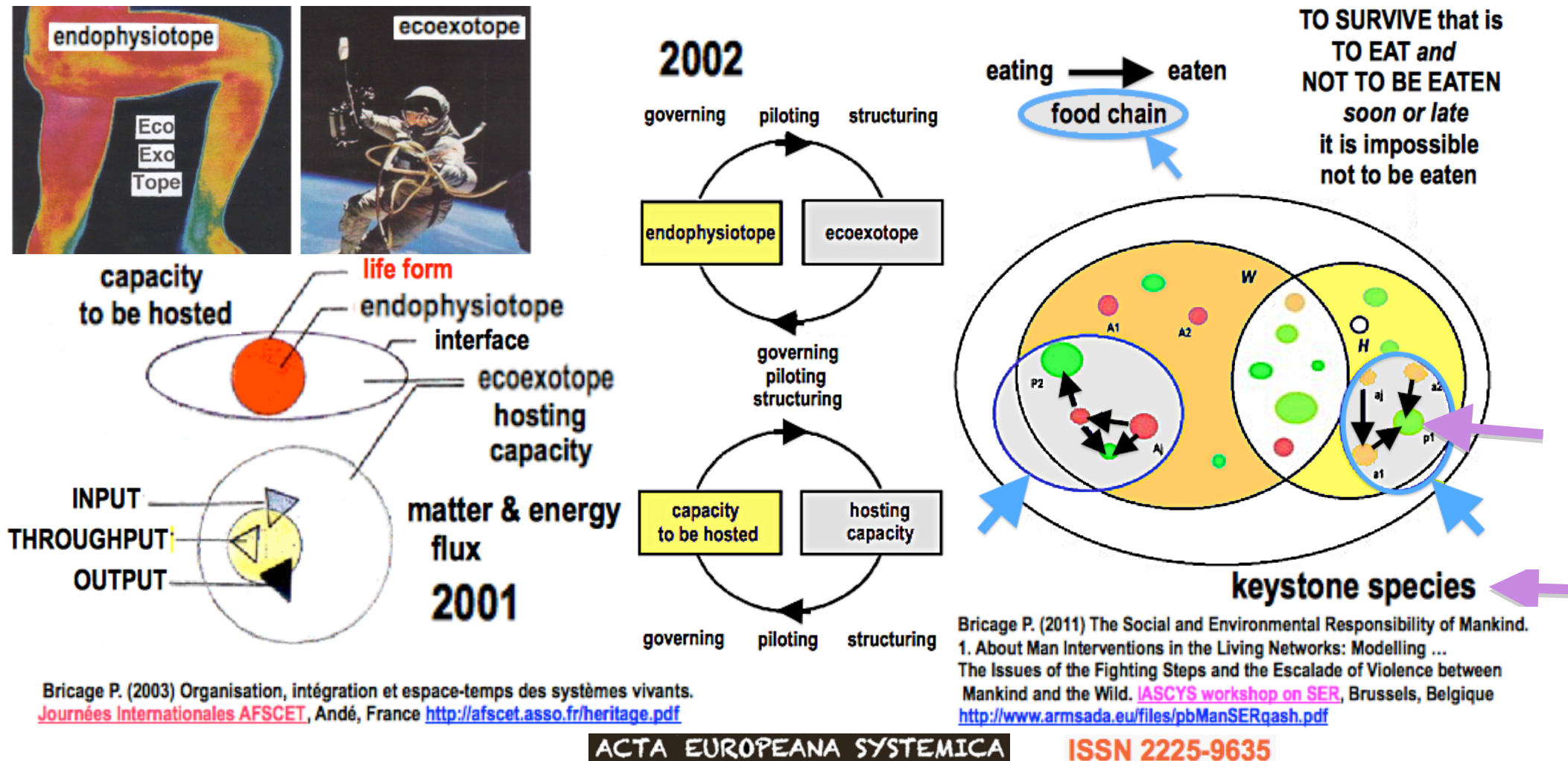
THE DECONTROLLED PROLIFERATION OF CANCER CELLS IS **THE RESULT OF THEIR LACK OF NON-AUTONOMY**. HEALTHY CELLS CANNOT SURVIVE IF THEY ARE FREED. CANCER CELLS CANNOT SURVIVE IF THEY ARE NOT FREE. AUTONOMOUS CANCER CELLS MIGRATE AND INVADE ALL THE ORGANISM WHICH IS THEIR ECOEXOTOPE OF SURVIVAL.

WHAT ARE CANCER CELLS?

THEY ARE CELLS THAT SHOULD HAVE DIED BUT THAT DID NOT. AND THE ONLY WAY FOR THEM TO SURVIVE WAS TO BECOME CANCER CELLS THROUGH A RETROGRESSION PROCESS.

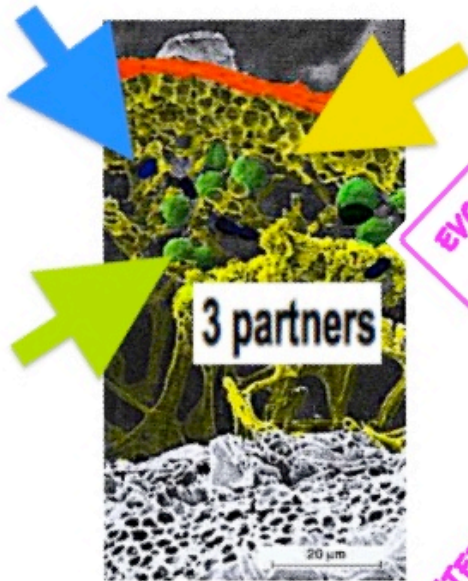
ISBN: 978-972-9059-05-6

2.3. FOOD CHAIN: KEYSTONE SPECIES AND BIODIVERSITY



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a lichen
AN ORGANISM MADE OF
A MULTICELL ORGANISM
A CELL ORGANISM POPULATION
A BACTERIAL POPULATION



AN ECOSYSTEM
WITH A FOOD CHAIN

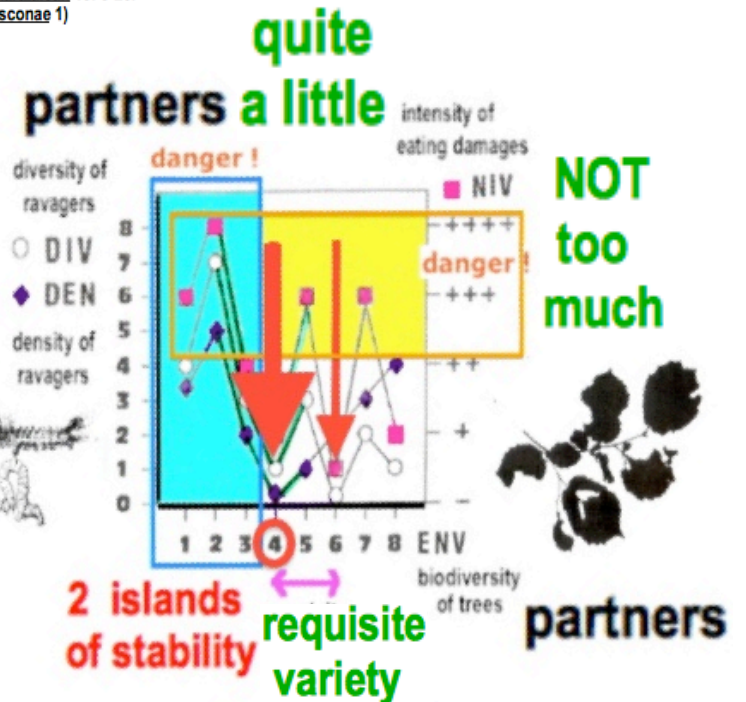
a cell
AN ORGANISM MADE OF
POPULATIONS OF DIFFERENT
BACTERIAL ORGANISMS SPECIES



AN ECOSYSTEM OF INTERACTIVE
RECYCLING WASTE PRODUCTS FOOD CHAINS

a forest
AN ORGANISM MADE OF
POPULATIONS OF DIFFERENT
MULTICELL ORGANISMS SPECIES

Brigage P., A. Duverger-Nedellec & D. Larroche (1990)
Appraisal of the defoliator Lepidoptera associations
in a hardwood forest. *Ikartzaleak* 13: 5-26.
(*Acta Entomologica Vasconae* 1)

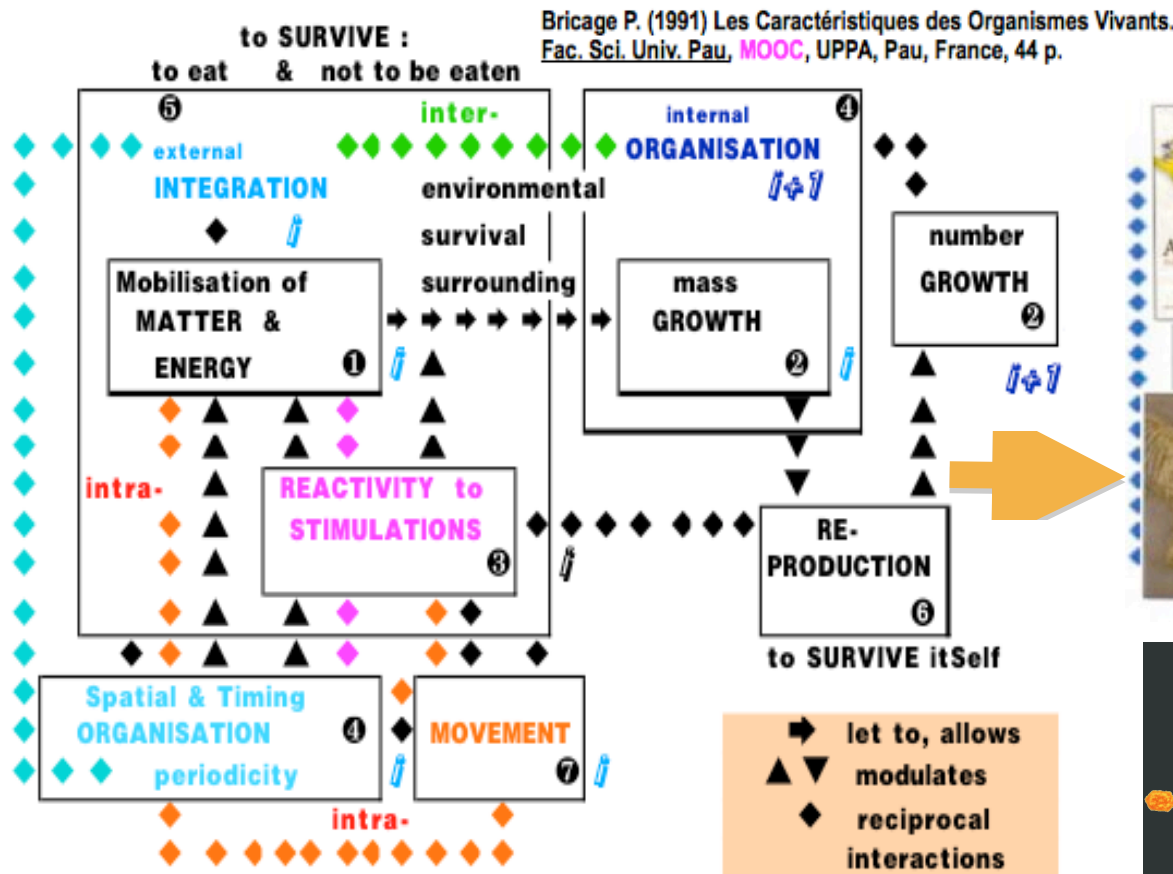


AN ECOSYSTEM
OF ECOSYSTEMS

1991

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3.1. LIVING SYSTEMS 7 CAPABILITIES: GAUGE INVARIANCE OF LIFE

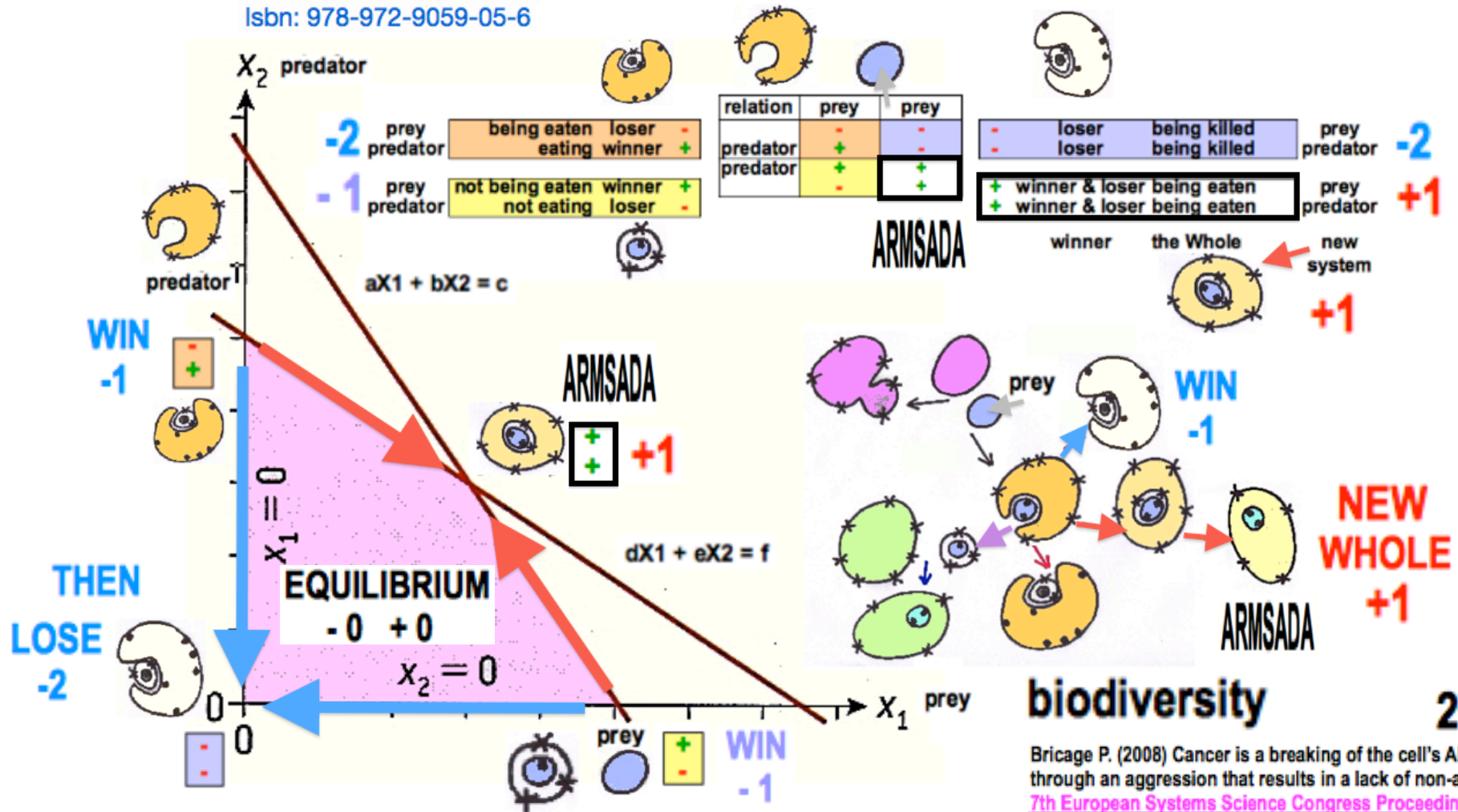


2002

Briceage P. (2002) The Evolutionary "Shuttle" of the Living Systems.
5th European Systems Science Congress Hersonissos, Creta,
Res. Systemica 2: 6 p.
<http://www.afscet.asso.fr/resSystemica/Crete02/Briceage.pdf>

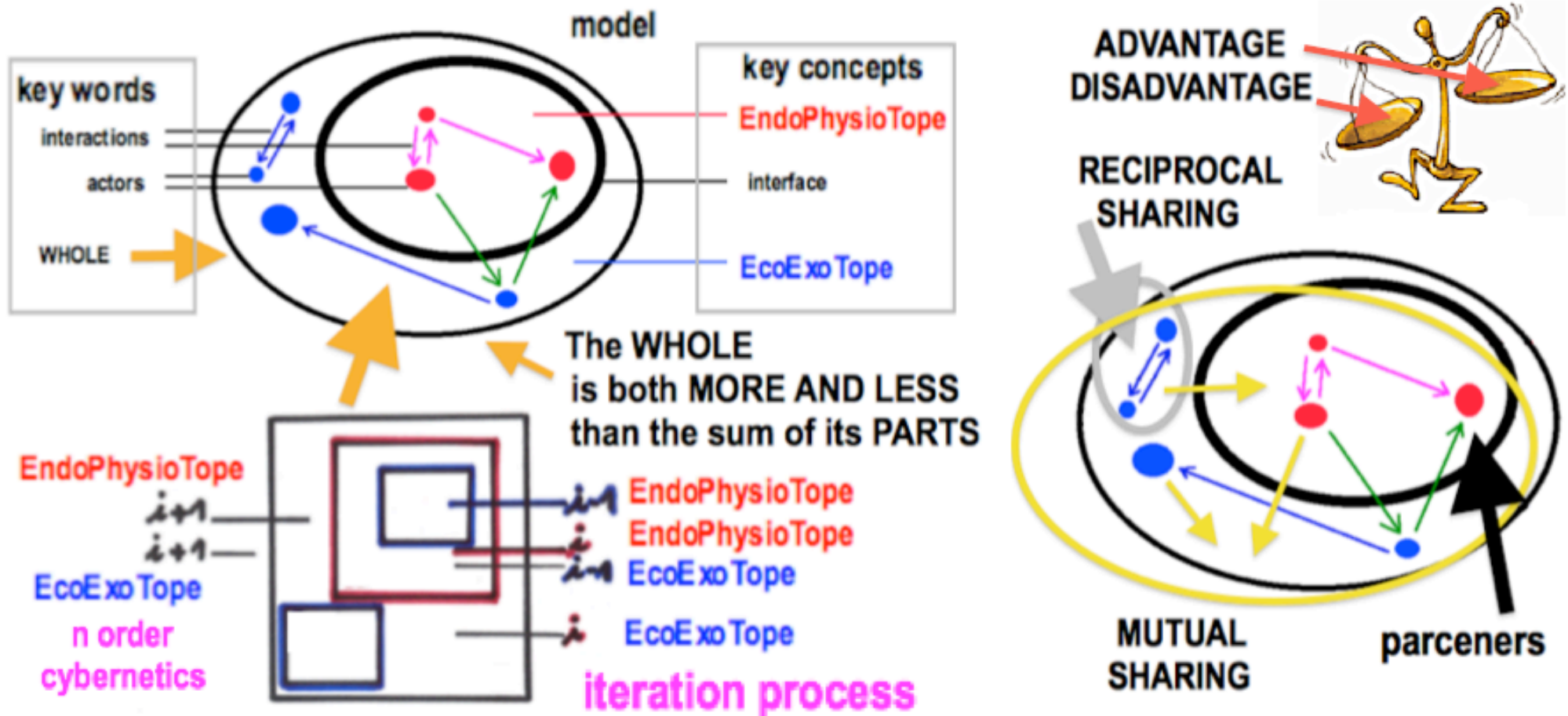
TO SURVIVE THAT IS TO EAT AND NOT TO BE EATEN: PRISONERS' DILEMMA

Isbn: 978-972-9059-05-6



Associations for the Reciprocal and Mutual Sharing of Advantages and DisAdvantages

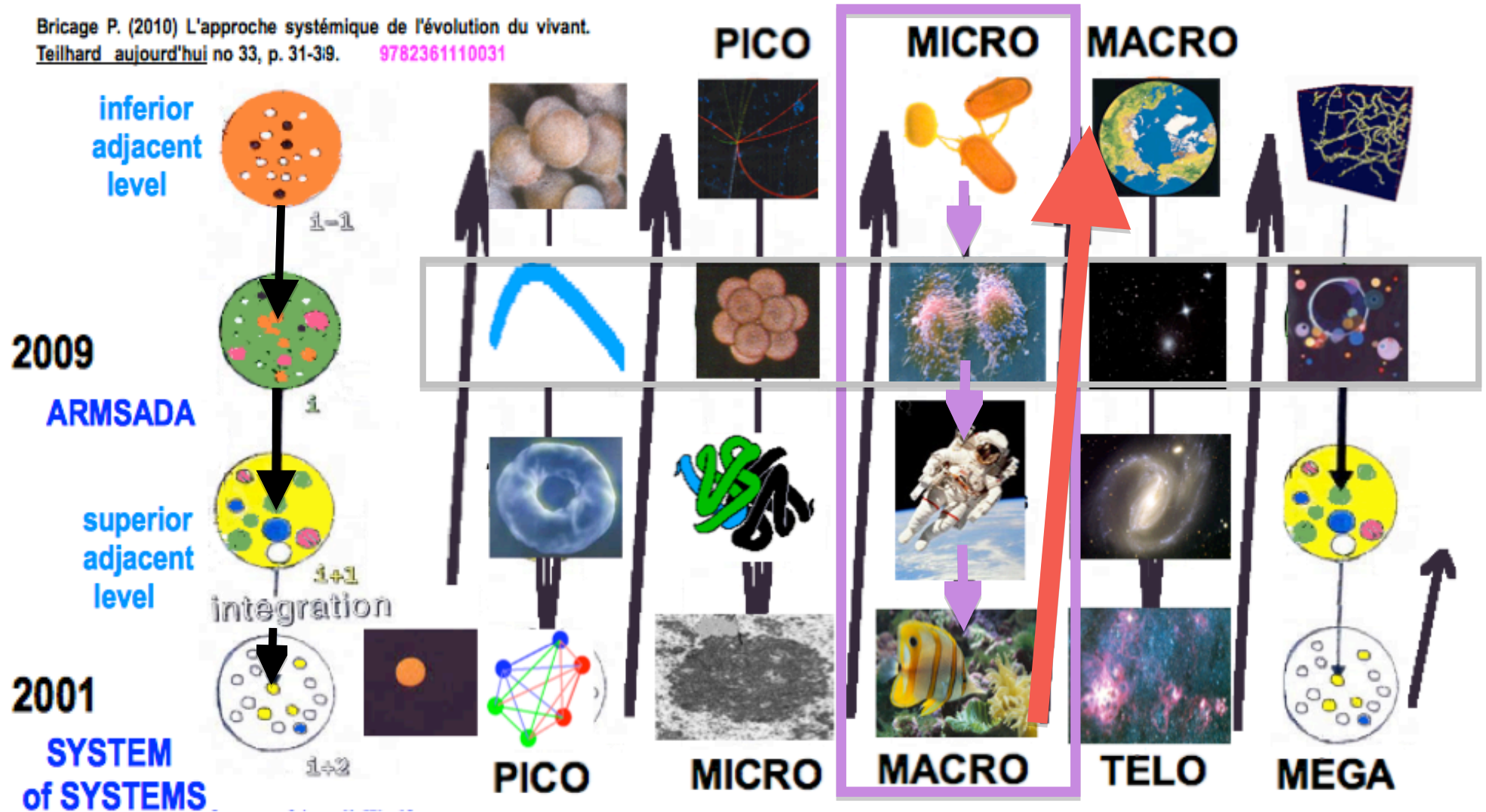
SYSTEM OF SYSTEMS: JUXTAPOSITION AND EMBEDMENT



Bricage P. (2001) Les caractéristiques du vivant biologique et sociétal ? Pour survivre et se survivre, la vie est d'abord un flux, ergodique, fractal et contingent, vers des macro-états organisés de micro-états, à la suite de brisures de symétrie., I.I.A.P., Paris, <http://www.afscet.asso.fr/ergodiqW.pdf>

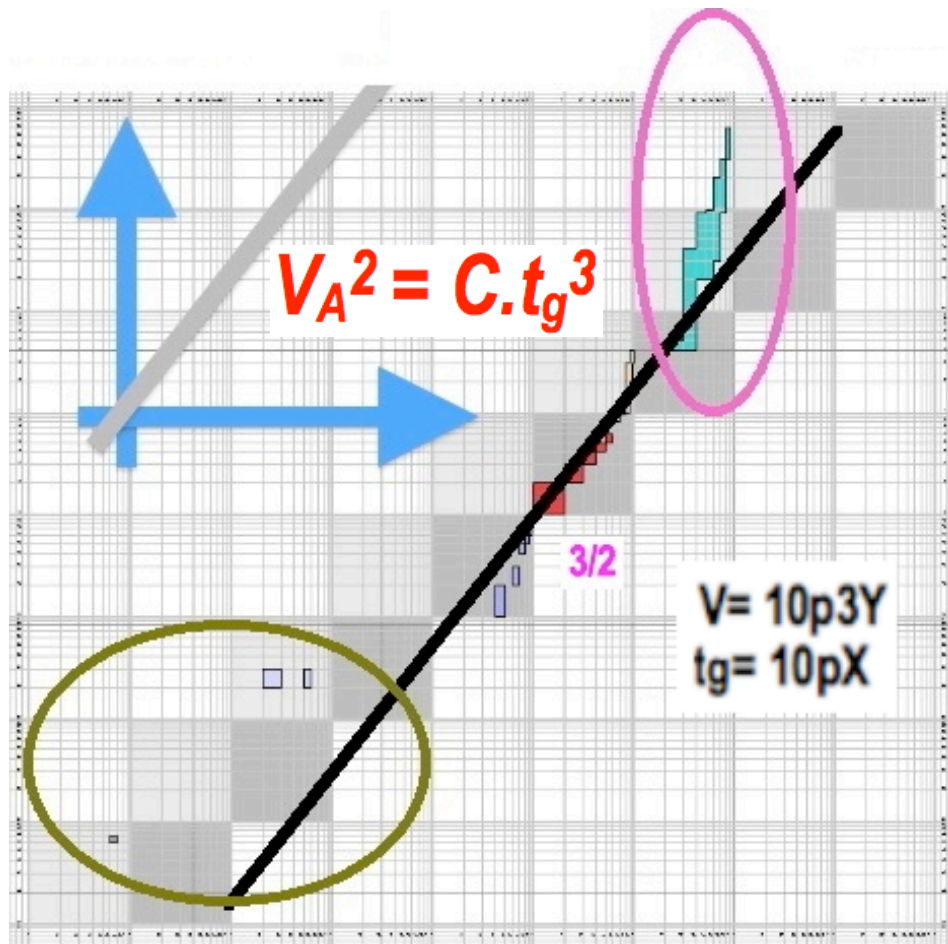
3.2. ORGANISATION LEVELS: PERIODIC CLASSIFICATION CHART

Bricage P. (2010) L'approche systémique de l'évolution du vivant.
Teilhard aujourd'hui no 33, p. 31-39. 9782361110031



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3.3. KEPLER THIRD LAW LIKE

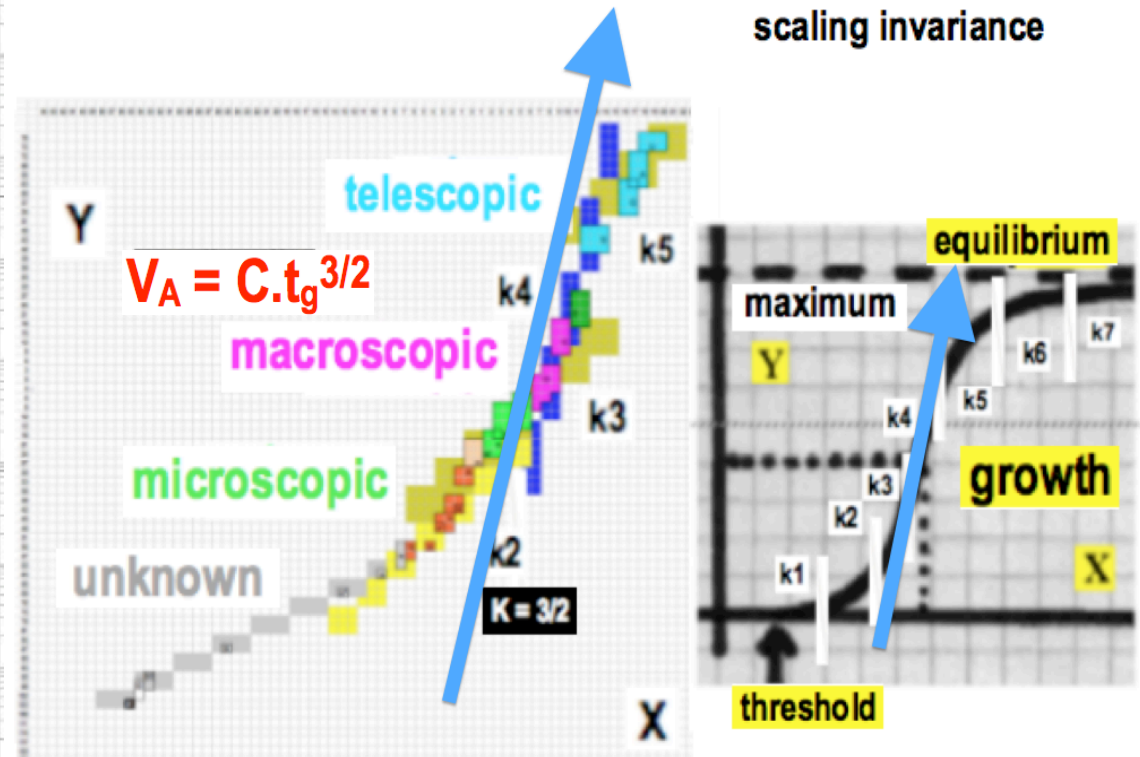


GROWTH CURVE

Bricage P. (2009) L'évolution créatrice :
Métamorphoses et "phylotagmotaphologie" du vivant.
Amis de Pierre Teilhard de Chardin, Centre de Sèvres, Paris, 109 p.
<http://hal.archives-ouvertes.fr/docs/00/42/37/30/PDF/phylotagmotaphologie.pdf>

2009

scaling invariance



PLACENTA LEGUMES NODES PLAGUE ARMSADA ARE EVERYWHERE

Klevytska A.M. & al. (2001) Identification and characterization of variable-number tandem repeats in the *Yersinia pestis* genome J. Clin. Microbiol. 39: 3179-3185. **2001**

Kim A.I. & al. (2003) Mycobacteriophage Bxb1 integrates into the *Mycobacterium smegmatis* groEL1 Molecular Microbiology 50(2): 463-473.

²⁸ Ibid BRICAGE P. (2002a) <http://www.afscet.asso.fr/resSystemica/Crete02/Bricage.pdf>

²⁹ LIE T.A. (1984) *Host genes in Pisum sativum L. conferring resistance to European Rhizobium leguminosarum strains.*, p. 415-425. Plant and Soil n° 82.

³⁰ LIE T.A. & TIMMERMANS P.C.J.M. (1983) *Host-genetic control of nitrogen fixation in the legume-Rhizobium symbiosis: complication in the genetic analysis du to maternal effects.*, p. 449-53. Plant and Soil n° 75.

³¹ BIROT A.M. & al. (1983) *Nitrogen fixation in French-bean nodules in relation to ageing role of bacteroids.* p. Physiol. Vég., n° 21.

Klymiuk N. & al. (2003) Characterization of endogenous retroviruses in sheep. J. Virol. 77(20): 11268-11273.

Kobinger G.P. & al. (2006) Chimpanzee adenovirus vaccine protects against Zaire Ebola virus. Virology 346(2): 394-401. **2008**

Dunlap K.A. & al. (2006) Endogenous retroviruses regulate periimplantation placental growth and differentiation. Proc Natl Acad Sci USA 103:14390-14395.

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Bricage P. (2008) Cancer is a breaking of the cell's ARMSADA through an aggression that results in a lack of non-autonomy. 7th European Systems Science Congress Proceedings, Lisboa

Associations for the Reciprocal and Mutual Sharing of Advantages and DisAdvantages

4.1. HIV CURATIVE VACCINE

La technologie du prélèvement in vivo de cellules souches, de leur culture in vitro, puis de leur réimplantation in situ*, au même individu, est maintenant maîtrisée.* Cultivons une grande quantité, renouvelée, de cellules mères de la lignée lymphocytaire, saines, prélevées chez un individu contaminé (mais en dessous du seuil de contamination assurant l'existence de cellules viables* intactes, non infectées*), en présence d'une quantité limitée, contrôlée, de virions HIV. Tôt ou tard, les seules cellules survivantes, sélectionnées in vitro, seront des cellules souches modifiées génétiquement*, ayant intégré le virus (état 4, Figure 2) sous une forme endogène stable (état E, Figure 1). Réimplantées, chez le même individu contaminé*, elles donneront naissance à une lignée résistante* à la lyse par le même virus.*

Bricage P. (2005) The Metamorphoses of the Living Systems:

Associations for the Reciprocal and Mutual Sharing of Advantages and of Disadvantages.

6th European Systems Science Congress Proceedings workshop 4 Bio-Systemics, 10 p.



19th Sept 2005, PARIS



AFSCET

<http://abbayeslaiques.asso.fr/BIOsystemique/bibliographie/METAreferencesPB.pdf>
<http://abbayeslaiques.asso.fr/BIOsystemique/bibliographie/PBmetamorphoses.pdf>

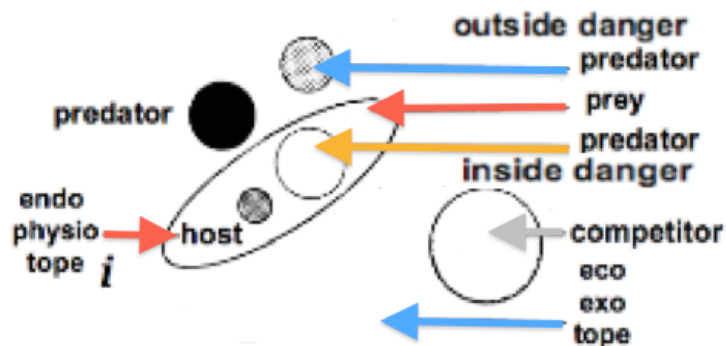
4.2. CANCER CURATIVE VACCINE

Bricage P. (2008) ARMSADA: Applicative Insights in Prevention or Cure of (HIV induced) AIDS. Complementary Data, Figures & References.

7th European Systems Science Congress Proceedings, Lisboa

Isbn: 978-972-9059-05-6

2008



TO SURVIVE IT IS "TO EAT AND NOT TO BE EATEN".

THE RELATIONSHIP BETWEEN HIV AND CELLS ARE THE SAME THAT THE ONES BETWEEN A PREDATOR AND ITS PREYS. HIV POPULATIONS EVOLVE AS DO OTHER BLOOD CELLS PREDATORS (LIKE IN TRYPANOSOMES DISEASES), WITH THE 4 FATES:

- THE PREY WINS, - THE PREDATOR WINS, - THE 2 LOSE, - NO ONE WINS OR LOSES AND THE 2 TOGETHER WIN AND LOSE.

A STEADY-STATE MUST INSTALL BETWEEN THE PREDATOR AND ITS PREY, LIKE IT HAPPENS BETWEEN A BACTERIOPHAGE AND ITS BACTERIAL HOST, FOR THE MERGING OF AN ARMSADA, WHICH IS A NEW BLUEPRINT.

Associations for the Reciprocal and Mutual Sharing of Advantages and DisAdvantages



APOCOSIS – Associação Portuguesa de Complexidade Sistémica
FCT – Campus de Caparica
2825-516 CAPARICA
Portugal

www.apocosis.org



IN SOME ASPECTS AIDS AND CANCER ARE SIMILAR: THE VIRUS/HOST FIGHT IS AN ARMS RACE.

IN THE CASE OF BACTERIOPHAGES, USUALLY VIRUSES OF THE ECOEXOTOPE KILL THE BACTERIAL HOST: PROBABILITY 1.

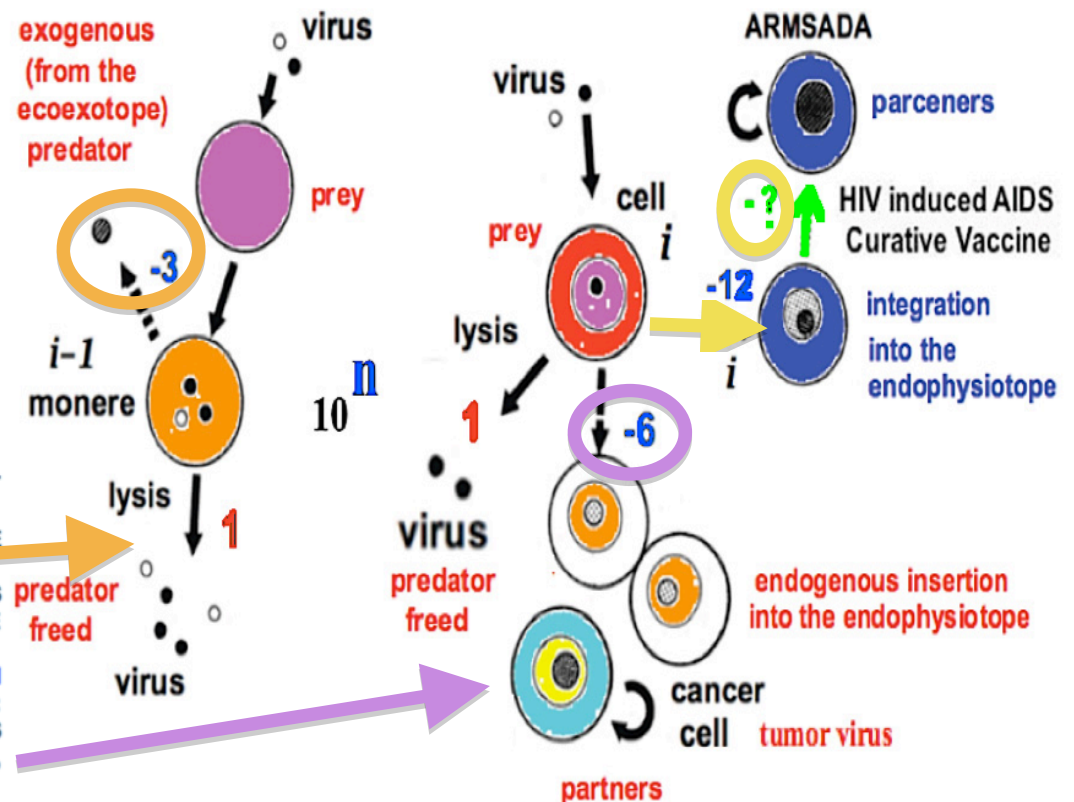
RARELY (PROBABILITY $10^{\text{exponent}-3}$), THE PHAGE DOES NOT KILL ITS HOST AND THE 2 SURVIVE TOGETHER. BUT THEIR ASSOCIATION MAY BE DISRUPT BY THERMAL, RADIATIVE OR CHEMICAL STRESSES, LIKE IN CANCER.

"THE SAME" WHEN AN EXOGENOUS VIRUS ENTERS A CELL, OR WHEN AN ENDOGENOUS ONE EVADES INTO THE CELL. THE CELL USUALLY IS KILLED: PROBABILITY 1. BUT, VERY RARELY, PROBABILITY $10^{\text{exponent}-6}$, IT SURVIVES AND NO VIRUS IS PRODUCED, BECAUSE, THE 2, THE CELL AND THE VIRUS, SURVIVE TOGETHER GIVING RISE TO A CANCER CELL.

EXCEPTIONNALLY, THE VIRUS AND THE CELL GIVE RISE TO A NEW WHOLE, AN ARMSADA IN WHICH THE VIRUS IS DEFINITELY INTEGRATED INTO THE CELL'S ENDOPHYSIOCOPE: PROBABILITY SUPPOSED TO BE $10^{\text{exponent}-12}$. NO VIRUS IS PRODUCED, NO MORE CANCER CELL.

THAT IS THE PARADIGM OF ARMSADA MERGING, EVEN IF THIS EVENT IS AN EXCEPTION, SOON OR LATE IT BURSTS.

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THE EX-VIVO HIV CURATIVE VACCINE TECHNOLOGY I PROPOSED IN SEPTEMBER 2005 IS THE APPLICATION OF THAT ARMSADA PARADIGM.

THE PARADIGM: THE CONSTRAINED DANGERS ARE ADVANTAGES;

THE PROCEDURE: AFTER IN VIVO TAKING UP OF STEM CELLS INTO A SICK PATIENT AND THEIR IN VITRO CULTURE, THEIR PROGENY IS CONFRONTED WITH HIV TO ALLOW THE SELECTION OF CELLS THAT ARE STILL ALIVE, VIRUS FREE AND RESISTANT TO HIV KILLING, BECAUSE OF THEIR METAMORPHOSIS THROUGH HIV INTEGRATION.

AFTER THE TEST OF THEIR NON-CANCEROUS STATE, ENGRAFTED INTO THE DONOR THEY WILL CURE THE DISEASE.

Associations for the Reciprocal and Mutual Sharing of Advantages and DisAdvantages



"pierre bricage" "curative vaccine"



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Pierre BRICAGE ... **CANCER CURATIVE VACCINE** site AFSCET : CD UES Congress Proceedings (ISBN: 978-972-9059-05-6) ... **AIDS CURATIVE VACCINE** sur Res-Systemica www.afscet.asso.fr/resSystemica/Lisboa08/pbdiscussion.pdf - [Pages similaires](#)

www.afscet.asso.fr

[PDF] [\[hal-00351226, v1\] CANCER is a Breaking of the Cell's Association ...](#)

Format de fichier: PDF/Adobe Acrobat - [Version HTML](#)

Pierre BRICAGE l'autonomie cancéreuse page 2/2 hal-00351226, version 1 - 8 Jan 2009 .. Key words: cancer, **curative vaccine**, hosted viruses, ...

hal.archives-ouvertes.fr/docs/00/35/.../BricageTextWS1.pdf - [Pages similaires](#)

de P BRICAGE - [Autres articles](#)

[HAL :: \[hal-00352578, version 1\] Associations for the Reciprocal ...](#)

16 Feb 2009 ... Keyword(s) : cancer – **curative vaccine** – HIV – Mycobacterium – ...

Pierre Bricage <>. Submitted on: Tuesday, 13 January 2009 13:18:31 ...

hal.archives-ouvertes.fr/hal-00352578/en/ - [En cache](#)

hal.archives-ouvertes.fr



Bricage P. (2005b1) The Metamorphoses of the Living Systems: The Associations for the Reciprocal and Mutual Sharing of Advantages and of Disadvantages. 12 p.

Bricage P. (2005b2) Les Métamorphoses du Vivant : Les Associations à Avantages et Inconvénients Réciproques et Partagés. 9 p.

In 6th European Systems Science Congress Proceedings : workshop 4 BioSystemics.

[team building & networking into groupwares](#)

2005

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homologues simiens des 3 groupes (M, N, O) du virus du **SIDA (VIH)** viennent Mise au point d'un **vaccin curatif anti-SIDA** : Ibid Bricage P. (2005) The ...

www.afscet.asso.fr/Ande07pb.pdf - [Pages similaires](#)

[Stem Cells - News - HIGH HOPES FOR AIDS THERAPY / Experimental ...](#)

7 Apr 2006 ... **Stem cell HIV treatment** 1 Aphoresis Blood is removed from the body, filtered to remove stem cells and returned to the body. ...

www.stemcellnews.com/articles/stem-cells-aids-virus.htm - 15k -

[Stem Cells: Progress Towards "the Cure"?](#) - The Body

These tests remain negative out to nearly 300 days (285 days as of CROI), despite the absence of any **HIV** drug treatment since the **stem cell transplant**. ...

www.thebody.com/content/art45633.html - 29k -

2008

[Stem-cell 'cure' for HIV patient - The Irish Times - Mon, Nov 24, 2008](#)

24 Nov 2008 ... Madam, — It is immensely exciting to read of an **Aids** patient in Berlin who appears to be **HIV-free** after a **stem-cell** transplant procedure ...

www.irishtimes.com/newspaper/letters/2008/1124/1227293466313.html - 37k -

Associations for the Reciprocal and Mutual Sharing of Advantages and DisAdvantages

Sequential Therapy With JX-594, A Targeted Oncolytic Poxvirus, Followed by Sorafenib in Hepatocellular Carcinoma: Preclinical and Clinical Demonstration of Combination Efficacy
Molecular Therapy | 22 Mar 2011

Efficacy and Safety/Toxicity Study of Recombinant Vaccinia Virus JX-594 in Two Immunocompetent Animal Models of Glioma

Molecular Therapy | 31 Aug 2010

The Oncolytic Poxvirus JX-594 Selectively Replicates in and Destroys Cancer Cells Driven by Genetic Pathways Commonly Activated in Cancers

Molecular Therapy | 20 Dec 2011

<http://hal.archives-ouvertes.fr/hal-00351226/fr/p.42/45> – les articles originaux :

- annonce scientifique (17 décembre 2008, Lisbonne)

<http://www.afscet.asso.fr/resSystemica/Lisboa08/bricageCancer.pdf>

<http://www.afscet.asso.fr/resSystemica/Lisboa08/bricageWS1.pdf>

- méthodologie (suppléments) : *“the paradigm and the procedure”*

<http://www.abbayeslaiques.asso.fr/BIOsystemique/bibliographie/UESlisboaPBcancerRef.pdf>

<http://www.abbayeslaiques.asso.fr/BIOsystemique/bibliographie/UESlisboaPBSymbiosisRef.pdf>

p. 41/45 – Assuming the paradigm of ARMSADA we can propose a cancer curative vaccine procedure which is similar to that previously proposed, 3 years ago, during the last European Systems Science congress, for the curation of AIDS :

- time 1. First let's pick up stem cells and cancer cells from a patient.,
- time 2. Then, *in vitro*, using chemicals or physical stresses let's induce the liberation of endogenous viruses that eventually may kill cancer cells but not healthy ones.,
- time 3. If they do exist, these freed endogenous cancer cells killing viruses are then engrafted into the cancer parts of the donor where they **will specifically only kill the cancer cells.**,
- time 4. Then, the mix of the surviving, healthy and cancerous stem cells, **with their freed viruses** are mass cultivated.,
- time 5. This *ex-vivo* population is then treated with different “libraries” of exogenous killing viruses. When only normal healthy cells, without cancerous ones, survive, the survival ones are both not only not cancer cells but also resistant ones to both evading and invading viruses.,
- time 6. Thus they can be propagated.,
- time 7. And their mix, when engrafted into the donor sick organism, will contribute not only to kill cancer cells but also to replace them with resistant no-cancerous cells.

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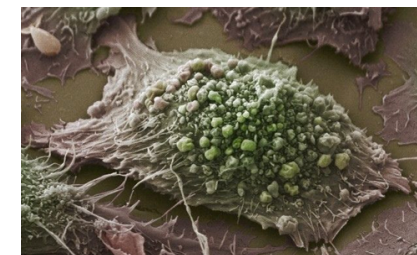


2005

2008



www.jennerex.com



en.wikipedia.org/wiki/JX-594

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CURATIVE VACCINES

2 NEW WORDS: ECOEXOTOPE & ENDOPHYSIOTOPE

2 “TRIVIAL” CONCEPTS:

- * **TO SURVIVE IT IS “TO EAT” & “NOT TO BE EATEN”**
- * **THERE ARE NEVER ADVANTAGES WITHOUT DISADVANTAGES**

1 NEW PARADIGM:

**ALL THE LIVING SYSTEMS MERGED FROM AN ARMSADA
ASSOCIATION for the RECIPROCAL and MUTUAL
SHARING OF ADVANTAGES and DISADVANTAGES**

2 “EVIDENT” FACTS: MODULARITY & ERGODICITY

2 NEW IDEAS:

- * **DANGERS HOSTED IN CELLS, ARE NECESSARY FOR THE SURVIVAL**
- * **VIRUSES ARE REGULATORS & PROTECTORS OF LIFE THROUGH
THEIR CONTROL OF THE CAPACITY OF HOSTING OF THE ECOEXOTOPES
& OF THE CAPACITY OF TO BE HOSTED OF THE ENDOPHYSIOTOPES.**

Associations for the **R**eciprocal and **M**utual **S**haring of **A**dvantages and **D**is**A**dvantages

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professionnal transdisciplinary websites:

<http://web.univ-pau.fr/~bricage/>

<http://www.afscet.asso.fr/interventions.html>

<http://www.afscet.asso.fr/pagesperso/Bricage.html>

Associations for the **R**eciprocal and **M**utual **S**haring of **A**dvantages and **D**is**A**dvantages

<http://www.armsada.eu/ARMSADAsystemics.html>

[The Metamorphoses of the Living Systems: The Associations for the ...](#)

hal.archives-ouvertes.fr/hal-00130685/

de P Bricage - 2005 - Cité 5 fois - Autres articles

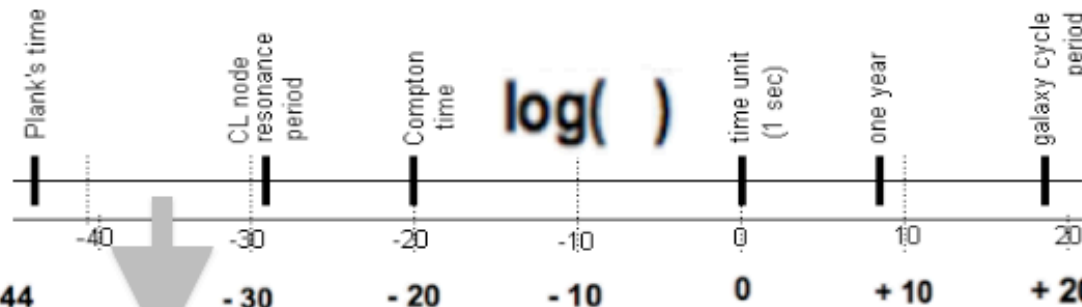
<http://ccsd.cnrs.fr>

concepts <http://hal.archives-ouvertes.fr/hal-00130218>

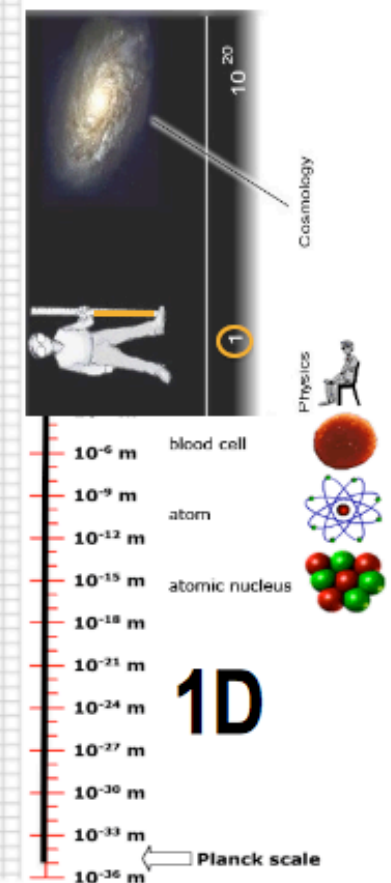
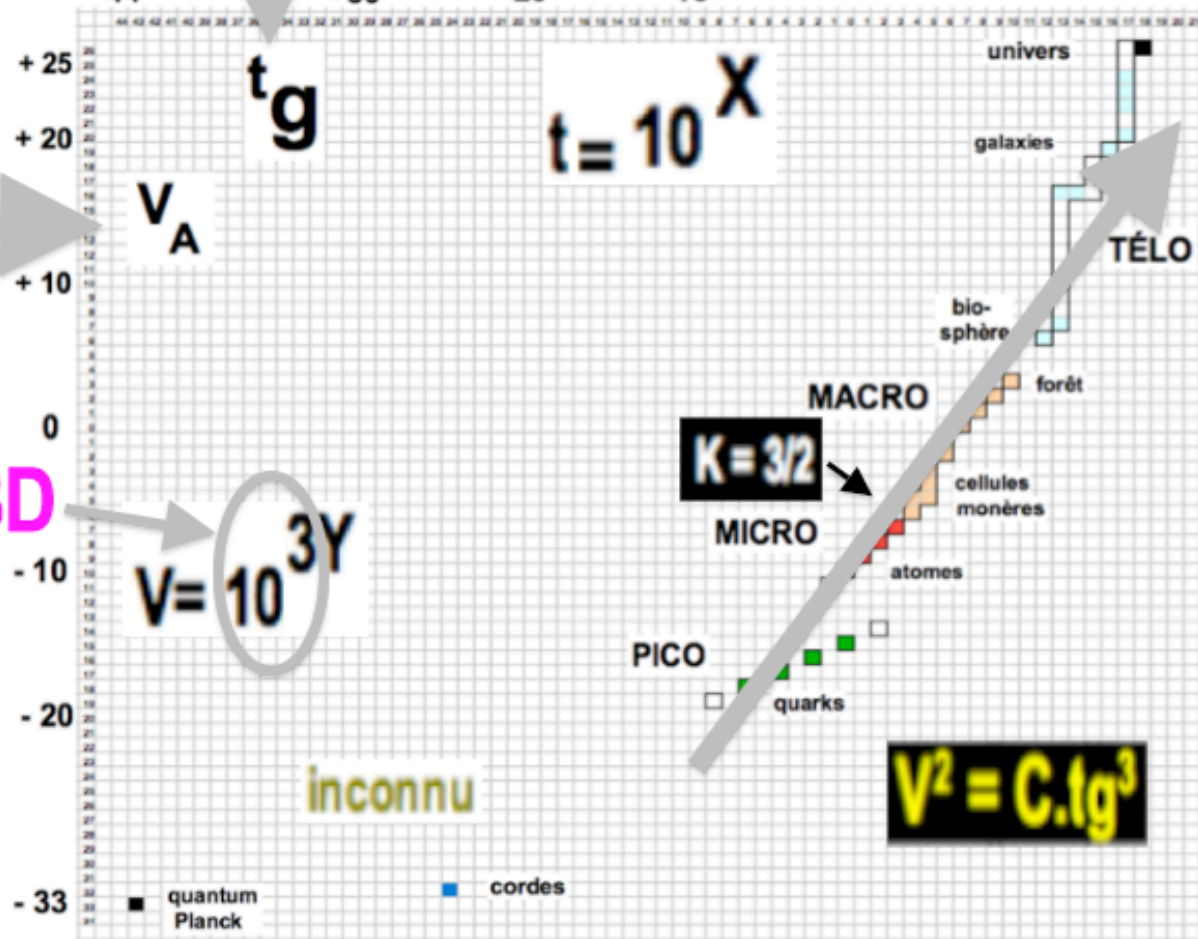
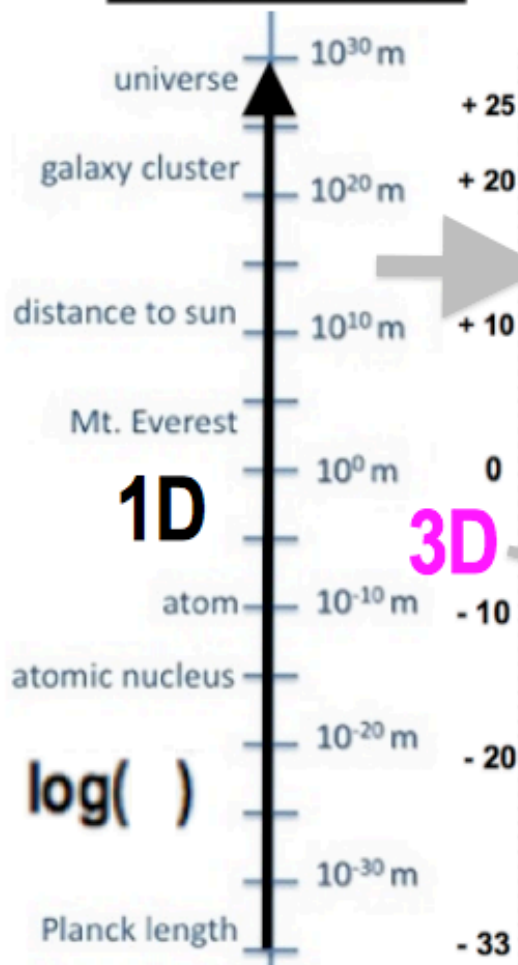
<http://www.armsada.eu/pb/bernardins/phylogtagmotaphologie.pdf>

AIDS curative vaccine <http://hal.archives-ouvertes.fr/hal-00351226/fr>
cancer curative vaccine <http://hal.archives-ouvertes.fr/hal-00352578/fr>

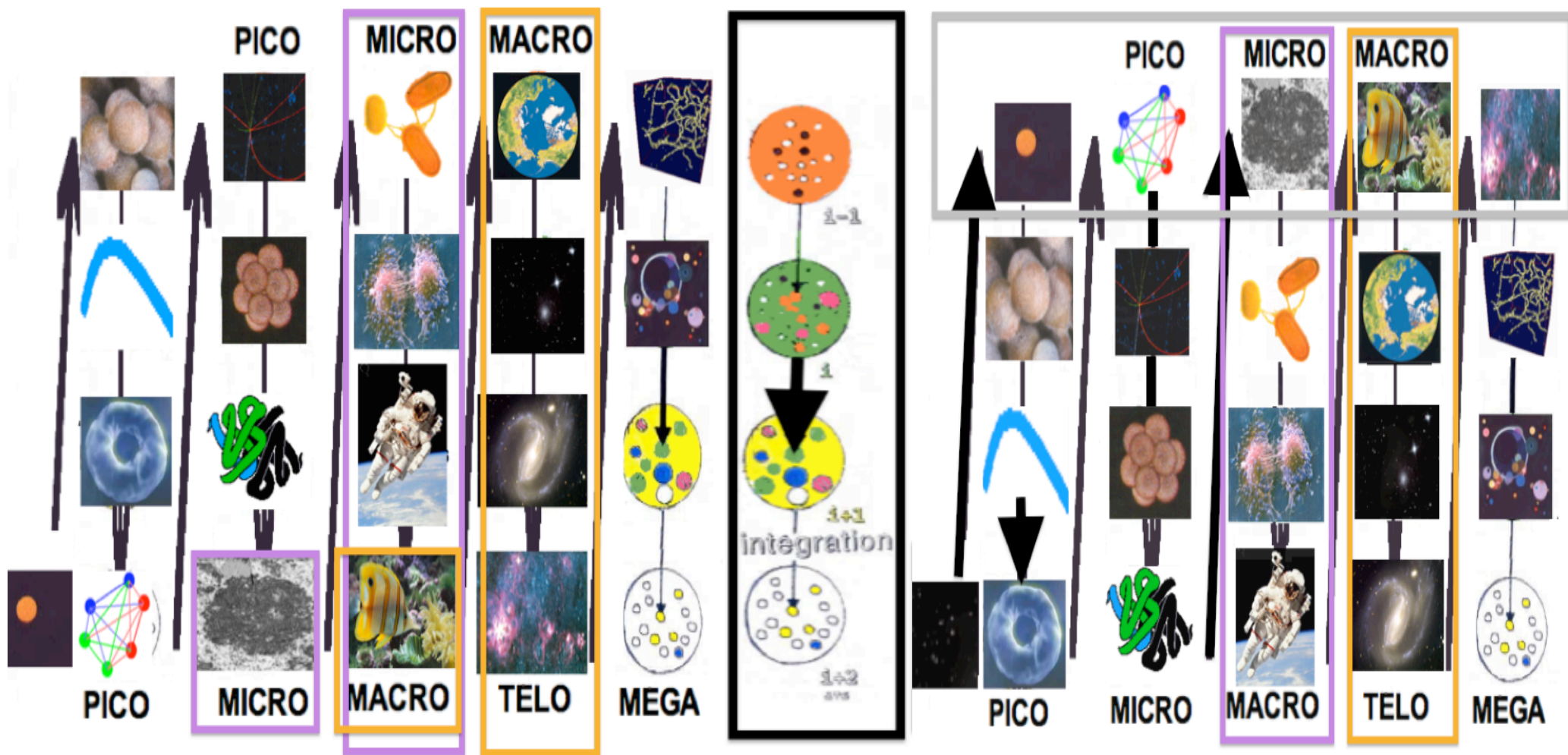
3D dimension Y
 V_A volume of the
 Adult form m^3
 $de -35 \text{ à } +26 = 62$



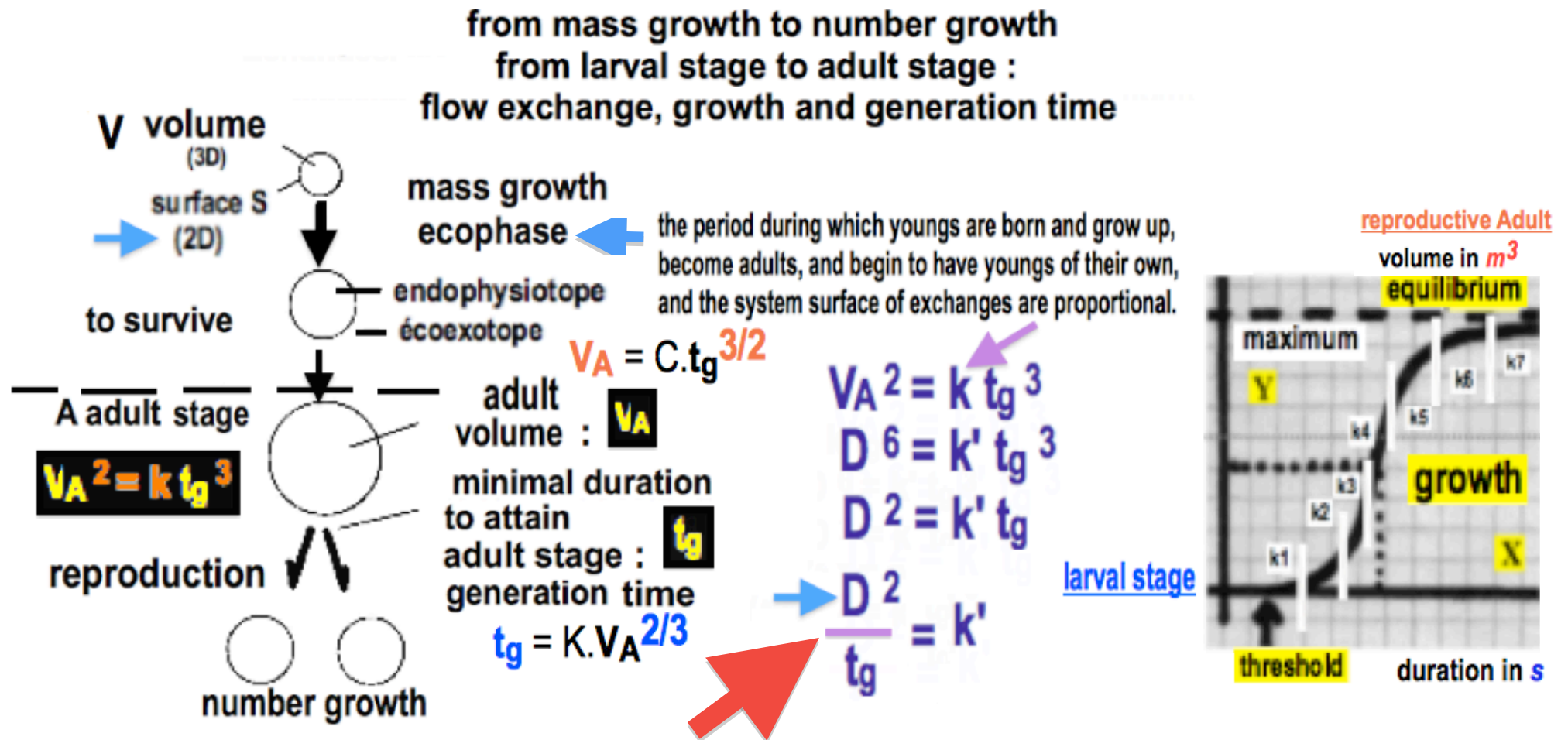
1D dimension X
 t_g time delay s
 $de -43 \text{ à } +18 = 62$
 to attain the
 Adult form



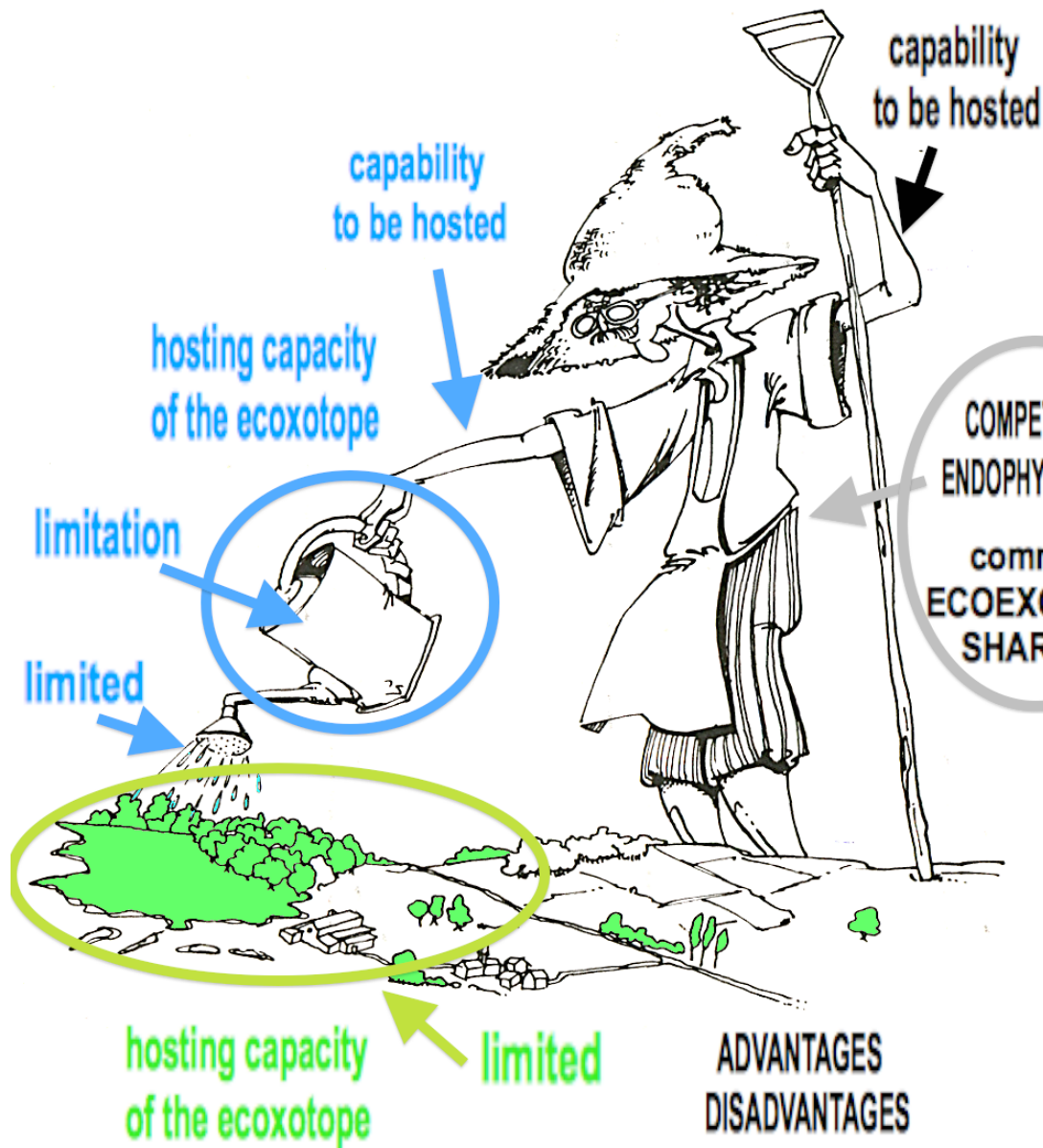
The Universe in Powers of Ten



Associations for the Reciprocal and Mutual Sharing of Advantages and DisAdvantages



« La complexification ne peut se poursuivre indéfiniment, car c'est par la surface que se réalisent les échanges. » (Laborit, 1985).



applicative insights in prevention

www.afscet.asso.fr/resSystemica/Lisboa08/bricage2.pdf

by P BRICAGE

Dec 19, 2008 - AIDS is the result of the limiting "hosting capacity" of the human and of the unlimited "capacity to be hosted" of the virus'

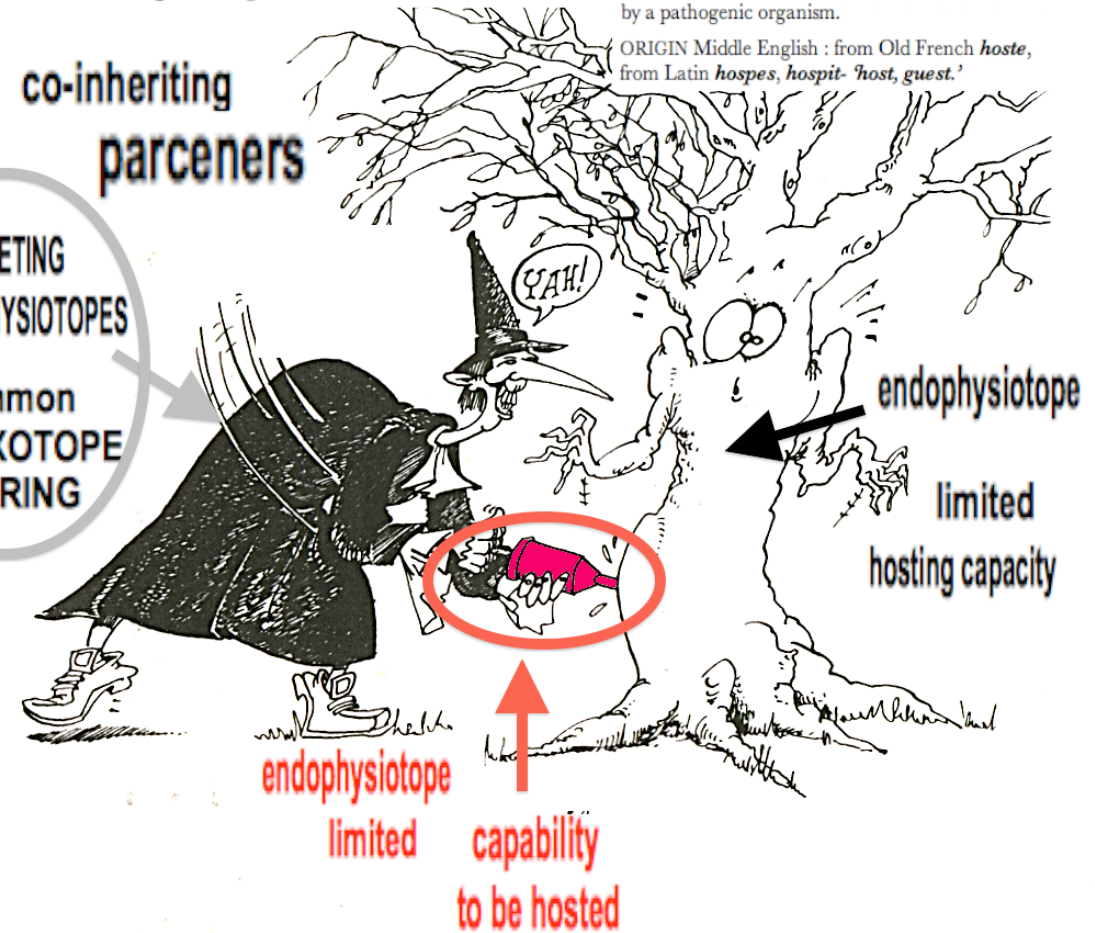
com•pete

strive to gain or win something by defeating or establishing superiority over others who are trying to do the same : *universities are competing for applicants* take part in a contest

ORIGIN early 17th cent.: from Latin *competere*, in its late sense 'strive or contend for (something),' from *com-* 'together' + *petere* 'aim at, seek.'

co-inheriting
parceners

COMPETING
ENDOPHYSIOTOPES
common
ECOEXOTOPE
SHARING



host

a person who receives or entertains other people as guests a person, place, or organization that holds and organizes an event to which others are invited an area in which particular living things are found : *Australia is host to some of the world's most dangerous animals.* an animal or plant on or in which a parasite lives. a living cell in which a virus multiplies. a person whose immune system has been invaded by a pathogenic organism.

ORIGIN Middle English : from Old French *hoste*, from Latin *hospes*, *hospit-* 'host, guest.'

ARMSADA

www.armsada.eu/files/pbSystemicEthics.pdf

by P BRICAGE

Nov 12, 2011 - Hosting Capacity of an Ecoexotope/Capacity to be Hosted of an Endophysiotope. 1b. Boundaries, Biosphere, Emergence: Evolutionary ...

Associations for the Reciprocal and Mutual Sharing of Advantages and DisAdvantages



APOCOSIS – Associação Portuguesa de Complexidade Sistémica
FCT – Campus de Caparica
2825-516 CAPARICA
Portugal

www.apocosis.org



IN SOME ASPECTS AIDS AND CANCER ARE SIMILAR: THE VIRUS/HOST FIGHT IS AN ARMS RACE.

IN THE CASE OF BACTERIOPHAGES, USUALLY VIRUSES OF THE ECOEXOTOPE KILL THE BACTERIAL HOST: PROBABILITY 1.

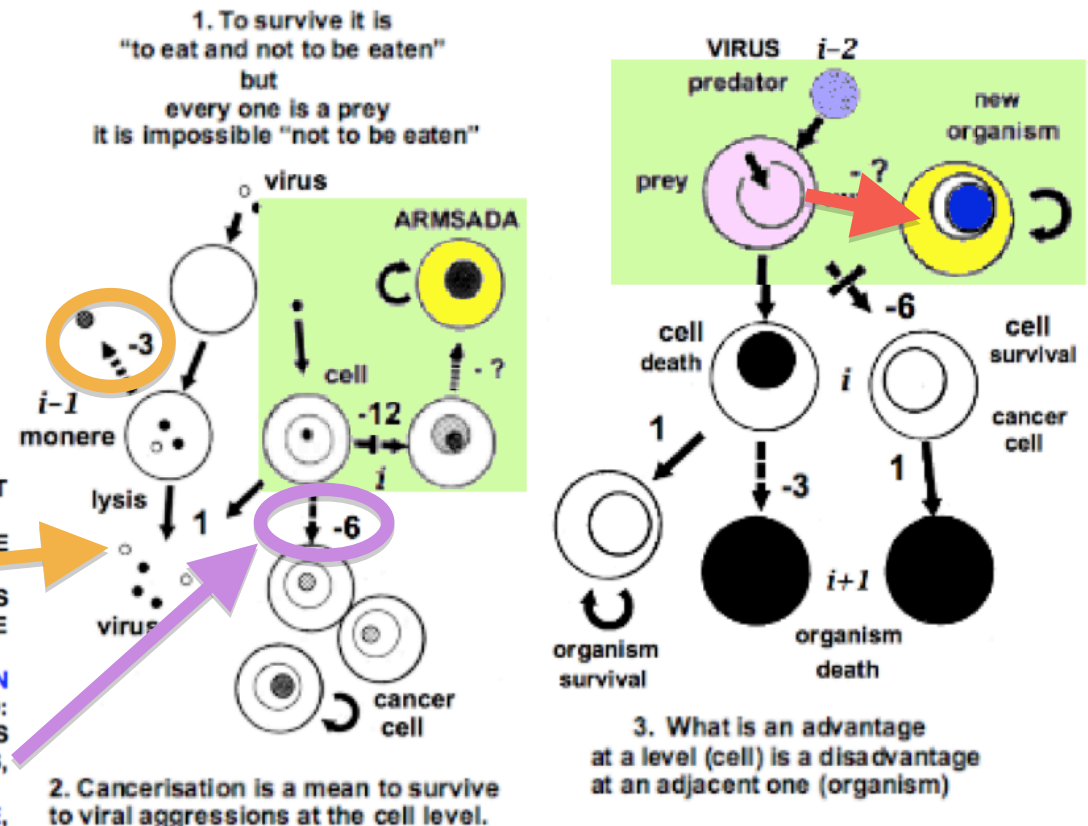
RARELY (PROBABILITY $10^{\text{exponent}-3}$), THE PHAGE DOES NOT KILL ITS HOST AND THE 2 SURVIVE TOGETHER. BUT THEIR ASSOCIATION MAY BE DISRUPT BY THERMAL, RADIATIVE OR CHEMICAL STRESSES, LIKE IN CANCER.

"THE SAME" WHEN AN EXOGENOUS VIRUS ENTERS A CELL, OR WHEN AN ENDOGENOUS ONE EVADES INTO THE CELL. THE CELL USUALLY IS KILLED: PROBABILITY 1. BUT, VERY RARELY, PROBABILITY $10^{\text{exponent}-6}$, IT SURVIVES AND NO VIRUS IS PRODUCED, BECAUSE, THE 2, THE CELL AND THE VIRUS, SURVIVE TOGETHER GIVING RISE TO A CANCER CELL.

EXCEPTIONNALLY, THE VIRUS AND THE CELL GIVE RISE TO A NEW WHOLE, AN ARMSADA IN WHICH THE VIRUS IS DEFINITELY INTEGRATED INTO THE CELL'S ENDOPHYSIOCOPE: PROBABILITY SUPPOSED TO BE $10^{\text{exponent}-12}$. NO VIRUS IS PRODUCED, NO MORE CANCER CELL.

THAT IS THE PARADIGM OF ARMSADA MERGING, EVEN IF THIS EVENT IS AN EXCEPTION, SOON OR LATE IT BURSTS.

Isbn: 978-972-9059-05-6



THE EX-VIVO HIV CURATIVE VACCINE TECHNOLOGY I PROPOSED IN SEPTEMBER 2005 IS THE APPLICATION OF THAT ARMSADA PARADIGM.

THE PARADIGM: THE CONSTRAINED DANGERS ARE ADVANTAGES;

THE PROCEDURE: AFTER IN VIVO TAKING UP OF STEM CELLS INTO A SICK PATIENT AND THEIR IN VITRO CULTURE, THEIR PROGENY IS CONFRONTED WITH HIV TO ALLOW THE SELECTION OF CELLS THAT ARE STILL ALIVE, VIRUS FREE AND RESISTANT TO HIV KILLING, BECAUSE OF THEIR METAMORPHOSIS THROUGH HIV INTEGRATION.

AFTER THE TEST OF THEIR NON-CANCEROUS STATE, ENGRAFTED INTO THE DONOR THEY WILL CURE THE DISEASE.