

SYNTHESIS OF CURRICULUM

- ❖ Graduated at University of Pavia in Biological Sciences (D.Sc.) in 1972
- ❖ Graduated at University of Pavia in Medicine and Surgery (M.D.) in 1990
- ❖ Prof. Roberto F. Villa at present time is Associate Professor of Pharmacology (from 1998), teaching Pharmacology at University of Pavia, Schools in Biological Sciences (B.Sc. and M.Sc. degrees), Neurobiology (Ph.D. degree) and in Chemistry Ph.D. degree). See the Italian version for the detailed description of teaching activity also in various Ph.D. courses and as Tutor of Thesis.

At the beginning and during his career as a Researcher and Fellow, Prof. Villa was visitor at:

- ❖ Cerebral Metabolism Group, Research Department, at University Hospital of Lund, Sweden
- ❖ Department of Neurology, at University Hospital of Lund, Sweden
- ❖ Department of Psychobiology at University of California, ICI, Los Angeles, U.S.A.
- ❖ Max Plank Institut for Biophysikalische Chemie, Abt. Neurochemie, University of Gottingen, Germany
- ❖ San Diego Alzheimer's Disease research Center, of the University of California, San Diego, U.S.A..

To-day, he is the Director of the Laboratory of Pharmacology and Molecular Medicine of Central Nervous System at the University of Pavia, that was included in the Fellowship Program of the New York Academy of Science (U.S.A.), until the end of this program.

Research activities of Prof. R. F. Villa are related to biochemical ("omics") studies at molecular level (Functional Proteomics and Metabolomics) on Physiopathology and Pharmacology of the Central Nervous System of acute and chronic main Diseases, as listed by World Health Organization (WHO, Geneva, Switzerland).

Particularly, the scientific investigations are related to study the effects of:

- (a) some experimental conditions of hypoxia, ischaemia, hyperammoniaemia, hypoglycaemia on the cerebral energy metabolism;
- (b) actions of drugs on the brain energy state in steady state as well as in the previously mentioned physiopathological experimental conditions;
- (c) molecular mechanisms of ageing and the drug's interference on energy metabolism of the cerebral tissue, also during the above mentioned experimental conditions;
- (d) the study of experimental Parkinson's Disease (PD, by MPTP model) and Dementias (AD, VAD) on brain energy metabolism and on drugs actions;
- (e) clinical studies on Molecular Medicine on patients affected by both Neurological Diseases (Dementias or Alzheimer's Disease) and Psychiatric Diseases (Depression and Schizophrenia, *in fieri*).

Scientific research activity is summarized in no. 371 total papers, of which no. 135 published on national and particularly international peer-reviews journals (ISI Impact Factor about 370; 90% share as first/last author); no. 72 were published on Proceedings or Acta of Congress, on specialized peer-reviews journals and on books; no. 164 are

abstracts of communications as speaker and posters of national and mainly international scientific Meetings. In addition, the research activity was presented at no. 234 scientific Congress, the majority being international. See the Italian version for the detailed description. Hirsch Index > 30

In addition, Prof. R.F. Villa is the author of the book “Principi di Farmacologia Generale” edited from 1993; to-day the book is edited as the VII edition.

Prof. R.F. Villa was officially invited to 387 Congress (since 1993) of which (since 2010) 165 as invited speaker, 10 as lecturer, 10 as Chairman/Co-Chairman of Scientific Sessions and 43 as Organizing Committee Member. The details may be requested directly to Prof. R.F. Villa.

International Appointments are divided in:

- Reviewer for *ad hoc* Founding Grants for Scientific Programs and Research;
- Reviewer *ad hoc* for Scientific Publications;
- Member of Editorial Board of Scientific Publications;
- Member of Italian and International Societies;
- Academic Appointments.

For the International Appointments see the detailed list and description in the italian version of *Curriculum* to the corresponding section.

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