



## Abbreviated Curriculum Vitae

Rivka Ravid, Ph.D.

### Consultancy:

Brain Bank Consultants

[www.BrainBankConsultants.com](http://www.BrainBankConsultants.com)

[info@brainbankconsultants.com](mailto:info@brainbankconsultants.com)

### Academic affiliation:

Royal Dutch Academy of Sciences

[Rivkagravid@gmail.com](mailto:Rivkagravid@gmail.com)

### Address:

Netherlands Institute for Neurosciences

Meibergdreef 47, 1105 BA Amsterdam

The Netherlands

### Current + recent Positions:

- 2007 -*
  - Director and founder of Brain Bank Consultants.
  - Senior scientist Netherlands Institute for Neurosciences, Amsterdam, The Netherlands.
  - Scientific advisor to the Netherlands Brain Bank and the Netherlands Institute for Neurosciences, Royal Dutch Academy of Sciences, on Bio/Tissue Banking of human specimens.
  
- 2006*
  - Senior advisor on Brain Banking to the Netherlands Brain Bank and the Royal Dutch Academy of arts and Sciences, Amsterdam, The Netherlands.
  
- 2001 – 2006*
  - Managing/Acting Director of the Netherlands Brain Bank, Amsterdam, the Netherlands.
  - Project leader Netherlands Institute for Brain Research.
  
- 2001 – 2006*
  - Project leader on Legal and Ethical issues in Brain Banking (WP 2) and Donor Programs (WP7) at Brain-net Europe (BNE).  
Governmental Board of Brain-Net Europe.
  
- 1987 – 2006*
  - Secretary and treasurer of the Foundation of the Netherlands Brain Bank (Stichting tot Ondersteuning van de Hersenbank).
  
- 1987 – 2001*
  - Coordinator Netherlands Brain Bank, Amsterdam.
  
- 1985 – 2001*
  - Co-founder and chairmen of the European network of Brain Banking (EBBN).

### Expertise's and research activities:

Dr. Rivka Ravid is a Tissue/Bio banker and a neuroscientist; her main expertise's are in Brain/tissue /Bio Banking (BTB -banking) and the harmonization of internationally accepted medico-legal-ethical guidelines for use of human specimens in basic and clinical research.

She started in 1987 as the Coordinator of the Netherlands Brain Bank (NBB) and was since 2001 the Managing and scientific Director of the Netherlands Brain Bank and a Scientific Project leader at the Netherlands Institute for Brain Research, Amsterdam, the Netherlands.

Her line of work and main interests include setting up Tissue and Bio banks, making the public aware of the need for human specimens for clinical and basic research to discover disease etiology and develop therapies and treatments to cure these diseases. Dr. Ravid pioneered the setting up a national donor program in the Netherlands and invested several years in professionalizing procedures to optimize the transparency and accountability. She put a lot of effort in the harmonization and refinement of the procedures for procurement, handling, storage and dissemination of specimens for research.

Her interest in the possible causes and pathologies underlying various neurological and psychiatric disorders led her to start a search for Bio markers. R. Ravid has set up together with her colleagues at the pathology department of the Free University of Amsterdam a large and comprehensive collection of both frozen and formalin fixed material, in addition to a large collection of blood and CSF from living patients. These specimens are serving the extensive search for Bio- markers to help in the development of diagnostic tests for early discovery of the various neurodegenerative diseases.

The NBB under the leadership of Rivka Ravid has performed pioneering work in the establishment of a national program for research on neurological and psychiatric disorders, by introducing unique protocols and procedures, as well as formulating a legal and ethical Code of Conduct. She also set up a rapid autopsy system in collaboration with the Institute of Pathology of the hospital of the Free University of Amsterdam and was the founder of the EU-guidelines for legal and ethical issues in Tissue banking.

Dr.Ravid published a large number of papers, is very well cited in the international scientific literature (200 papers. H-index 52; see Publication list) and is regularly an invited /keynote speaker at academic institutions, Bio tech companies and scientific/clinical conferences, about Bio Banking, Biomarkers and translational and personalized medicine.



The team of the Netherlands Brain Bank 2006

International activities:

In the past years the Brain Bank in Amsterdam provided research specimens from 2850 autopsies for over 500 research projects in 30 countries worldwide. Dr.Ravid has turned the Brain Bank into a dynamic and tangible organization which actively supports, advises and helps research worldwide. Her activities formed a bridge between the donors, their next of kin, clinicians, researchers, pathologists, ethics committees, legislators and policy makers.

Overview of disseminated samples in the period 1990-2007



These research efforts based on material obtained from the Amsterdam Brain bank resulted in 1000 papers in top scientific journals; R. Ravid is an active participant in 190 of these peer-reviewed publications (for further analysis of publications at ISI web of knowledge).

Dr. R. Ravid is involved as a referee and member of the Scientific advisory board (SAB) of several Bio/Tissue/Brain banks in the France, Brazil, India, Italy, Japan, Spain, UK and the USA; she has been invited by the MRC –UK and the UK-Alzheimer's disease and Multiple Sclerosis charities as a referee for the evaluation of grant applications of UK Banks. Dr.Ravid has also served as an advisor to the Japanese Government in setting up a national network of Brain Banks in 22 national hospitals in Japan.

Dr.R. Ravid works as a Scientific advisor to a large number of pharmaceutical companies in Europe, India, USA, Asia and Australia (Abbott (USA), Astra Zeneca (Sweden+UK), Asterand (UK), Avantis (Belgium), Glaxo –Smith-Kline (USA+UK), Jansen-Cilag (Belgium, Europe), Johnson and Johnson (Belgium +UK), Merck (USA), Novartis (Switzerland) , Nymox (USA), Pfizer (UK+USA), Solvay (The Netherlands ), T-Gen (USA) and Otsuka Pharmaceuticals ( Japan).

The majority of these collaborations were established on the basis of a scientific collaboration with the aim to advance clinical and basic research and expand the expertise in molecular genetics and medicine (see for joint papers with T-Gen: Corneveaux et al. 2008 ; Webster et al. 2008; Coon et al. 2008; Reiman et al. 2007).

Many of the collaborations result in joint publications and contribute significantly to improving early diagnostics and personalized medicine by identifying Bio-markers for disease and developing therapies and drugs based on the patient's genetic makeup.

Dr. R. Ravid plays a leading role in new initiatives and creating 'state of the art Tissue and Biobanks' in various European and Asian countries.

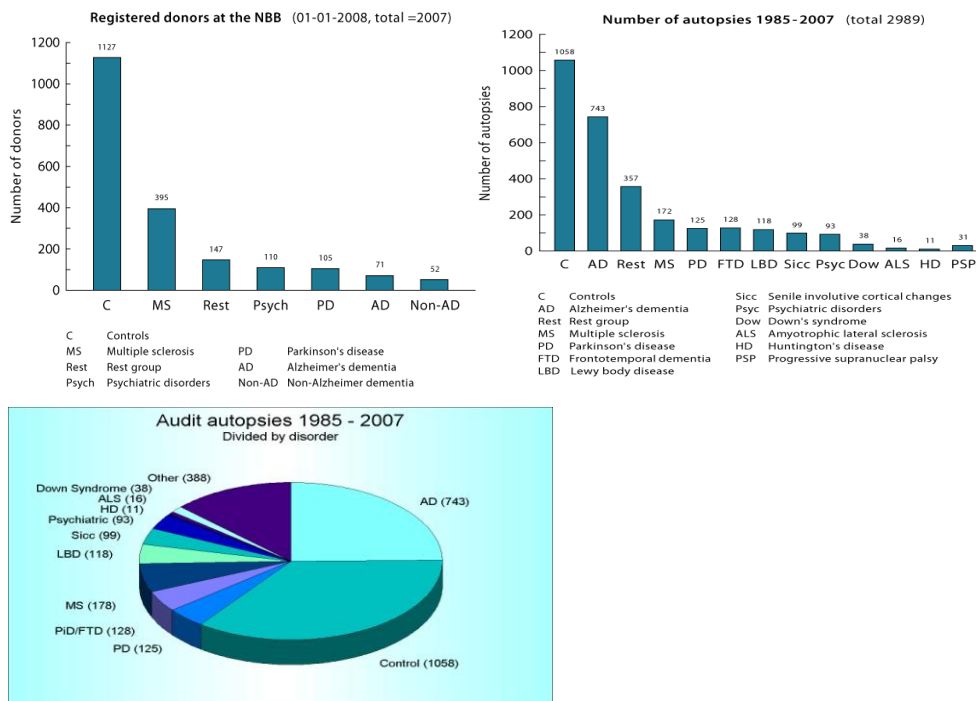
In 1993 R. Ravid co-founded the European Brain Bank Network (EBBN) , and since then she works in close collaboration with many European, American, Japanese and Australian groups, in an attempt to establish a standardized set of protocols (SOP's) , an international legal/ ethical Code of conduct and the necessary data –protection, electronic samples tracking and safety procedures for work with human specimens , which are broadly applied in multiple Bio/Tissue banks on an international level.

A unique achievement of Dr.Ravid is the incorporation of Bioinformatics, data protection, Genomics and Proteomics as an integral part of the work of the various banks. Recently she established a DNA/RNA bank in the Netherlands and started a donor programme for psychiatric disorders, in collaboration with various psychiatric clinics and a donor programme for pain/migraine patients in collaboration with prof. M. Ferrari from Leiden Medical Centre.

In 1999 Dr. Ravid was elected as a member of the Governing Board of the European initiative on Brain banking (BNE-I), an FP6th-consortium and network of excellence of 19 brain banks, which aims at collaboration and exchange of brain banking expertise within the European community.

R. Ravid had a leading role in this network, was board member of the management team and project leader for the European donor programs (WP7) and ethical and legal guidelines in Brain Banking (WP2). Recently, Dr. Ravid published several papers on Brain Banking Bio/Tissue Banking, summarizing the legal and ethical code of conduct, based on Declarations, Conventions, Recommendations, Guidelines and Directives issued by international key organizations, such as the Council of Europe, European Commission, World medical Association and the World Health Organization; this code of conduct will hopefully become the general rule and will aid in future European Legislation for donors, Bio and Tissue banks (Ravid 2008, Ravid and Grinberg 2008; Ravid 2009).

### Audit of rapid autopsies and registered donors in the period 1985-2007:



Note the large number of control donors and rapid autopsies of control donors.

European Activities in Brain Banking:



Quality assessment for the concordance trial at BNE-II in Munich, 2006.



Work packages 2 and 7 of BNE-II; shared with colleagues from UK and France.