

## Curriculum vitae

Wim E. CRUSIO

Date of Birth: December 20, 1954

Place of Birth: Bergen op Zoom, THE NETHERLANDS

Citizenship: Dutch

Marital status: Married

Home address: 62 Avenue du Dr. Schweitzer  
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### **Foreign languages**

English, German, French

### **Honors**

1984-1985: NATO Research Fellowship, awarded by the Dutch National Research Council (ZWO, Den Haag, The Netherlands).

1985-1987: Alexander-von-Humboldt Research Stipend, AvH Foundation, Bonn, GERMANY.

1988: Visiting Scientist Research Stipend, Fondation FYSSEN, Paris, FRANCE.

1991-2008: Associate Editor, *The Behavioral and Brain Sciences*.

1998-2001: President, International Behavioural and Neural Genetics Society (IBANGS).

2001: elected Fellow, International Behavioral Neuroscience Society (IBNS).

2001: nominated as candidate for President-elect, International Behavioral Neuroscience Society (IBNS; nomination not accepted).

2001: Editor-in-Chief, *Genes, Brain and Behavior*.

2002, 2003, and 2010: Candidate for President-elect, International Behavioral Neuroscience Society (IBNS).

2004 and 2008: nominated as candidate for President-elect, International Behavioral Neuroscience Society (IBNS; nomination not accepted).

2007: Article originally published in 1986 reprinted in special issue of *Journal of Neurogenetics* on "Origins of Neurogenetics".

**Education**

- Bachelor's degree in Biology, University of Nijmegen, THE NETHERLANDS, November 4, 1975.
- Master's degree in Biology with secondary/high school teaching certification, University of Nijmegen, THE NETHERLANDS, June 13, 1979. Thesis: "De rol van het reukvermogen in de regulatie van het exploratieve gedrag bij vier inteeltstammen van de muis (*Mus musculus* L.)." Supervisor: Dr. J.H.F. van ABEELLEN. With honors.
- Ph.D., University of Nijmegen, THE NETHERLANDS, January 26, 1984. Thesis: "Olfaction and behavioral responses to novelty in mice: A quantitative-genetic analysis." Supervisors: Dr. J.H.F. van ABEELLEN and Prof. A.P. van OVERBEEKE.
- Habilitation à diriger des recherches, University René Descartes (Paris V), FRANCE, October 21, 1991. Thesis: "Hippocampe et régulation du comportement chez la souris: Analyse génétique." Jury: Prof. A. COBLENTZ (President), Prof. J.-M. JALLON, Dr. R. NAQUET (Rapporteur), Prof. P. ROUBERTOUX (Director), Prof. B. SOUMIREU-MOURAT (Rapporteur).
- Autorisation d'expérimenter sur animaux vertébrés vivants, Ministère de l'Agriculture et de la Pêche, N° 006084, 28 June, 1994, Paris, FRANCE; renewed November 13, 2006, Bordeaux, France (Permission to have animal experiments performed under my direct responsibility).

**Academic appointments**

- October 1979 - May 1984: wetenschappelijk medewerker (research assistant), Department of Animal Physiology, University of Nijmegen, THE NETHERLANDS.
- June 1984 - May 1985: Stipend of the Dutch Organization for Pure Scientific Research (Z.W.O.: NATO Science Fellowship), Institut für Humangenetik und Anthropologie (Director: Prof. F. VOGEL), University of Heidelberg, GERMANY.
- June 1985 - January 1987: Stipend of the ALEXANDER-VON-HUMBOLDT Foundation (Bonn, F.R.G.), Institut für Humangenetik und Anthropologie, University of Heidelberg, GERMANY.
- February 1987 - December 1987: Senior researcher (BAT 1b), Institut für Humangenetik und Anthropologie, University of Heidelberg, GERMANY.
- January 1988 - December 1988: Visiting scientist, with support from the Fondation FYSSEN, Groupe Génétique, Neurogénétique et Comportement (Director: Prof. P.L. ROUBERTOUX), University René Descartes (Paris V), Paris, FRANCE.
- January 1989 - December 1990: Senior researcher (BAT 1b), Institut für Humangenetik und Anthropologie, University of Heidelberg, GERMANY.
- October 15, 1990 - September 30 1994: Chargé de Recherches Ière classe (senior researcher), CNRS URA 1294 Génétique, Neurogénétique et Comportement, Paris, FRANCE. Tenured: July 2, 1992.
- October 1, 1994 - September 30, 2000: Directeur de Recherches IIème classe, (research director), CNRS URA 1294 Génétique, Neurogénétique et Comportement, Paris, FRANCE (from July 15, 1997: UPR 9074, Génétique, Neurogénétique et Comportement, Institut de Transgénose, Orléans, FRANCE).
- October 1, 2000 - July 31, 2005: Professor of Psychiatry, Brudnick Neuropsychiatric Research Institute, Department of Psychiatry, University of Massachusetts Medical School, Worcester, MA, USA.
- August 1, 2005 - October 1, 2008: Directeur de Recherches IIème classe (research director), CNRS UMR 5106, Laboratoire de Neurosciences Cognitives (since 01/01/2007: Centre de Neurosciences Intégratives et Cognitives, CNRS UMR 5228), Talence, FRANCE.

October 1, 2008 - present: Directeur de Recherches 1ère classe (research director), CNRS UMR 5228, Institut de Neurosciences Cognitives et Intégratives d'Aquitaine, Bordeaux/Talence, FRANCE.

***Administrative duties, supervision of research***

1980 - 1982: Two Master's theses (Biology), University of Nijmegen, THE NETHERLANDS.

1984 - 1990: Several Master's, Ph.D. (Biology), and M.D. theses, University of Heidelberg, GERMANY.

December 1990 - December 1995: Direction of a research group "Behavioral Neurogenetics of the Mouse" with two tenured researchers (1990-1995: J.-Y. BERTHOLET, Maître de Conférences 1ère Classe, University Paris V; 1995: F. BONNET Chargé de Recherche 1ère Classe au CNRS), one postdoctoral researcher (F. SLUYTER, stipends from NATO and the FYSSEN FOUNDATION) and two Ph.D. students (L. JAMOT and A. LAGHMOUCH).

January 1996 - September 2000: Direction of a research group "Behavioral Neurogenetics of the Mouse" with two tenured researchers (F. BONNET, until June 1997, and M. NAVET, Chargés de Recherches 1ère Classe au CNRS), one postdoctoral researcher (F. SLUYTER, stipends from NATO and the FYSSEN FOUNDATION; until November 1997; S. ALYAN, stipend from the FYSSEN FOUNDATION, 1999), one technician (G. HAENTJENS, INSERM, since September 1997) and several Master's and Ph.D. students.

1998 - 2000: Full member, Commission de Spécialistes 66/69th Sections; Vice-President of the joint Commission 66/69th and 16th Sections. University François Rabelais, Tours, FRANCE. (Standing Search, Tenure, and Promotion Committee, Neuroscience).

1998: Commission d'interclassement des propositions d'avancement ITA, CNRS Délégation Centre-Auvergne-Limousin, Orléans, FRANCE. (Tenure and Promotion Committee).

2002 - 2004: Library and Learning Committee, University of Massachusetts Medical School, Worcester, MA, USA.

2003: LCME Working Group #17: Library/IS resources, University of Massachusetts Medical School, Worcester, MA, USA.

August 2005 - present: Direction of a research group "Behavioral Neurogenetics" with three tenured researchers (Y. CHO, P. ROSAY, and J. VEENSTRA), one postdoctoral researcher (L. SCHILLER), three technicians (M.-P. ALGEO, B. BONHEUR, and A. CORNUEZ), and several master's and Ph.D. students.

January 2006 - present: Member, Management Committee, Centre de Neurosciences Intégratives et Cognitives, CNRS UMR 5228, Talence, FRANCE.

October 2006 - present: Member of the Scientific Advisory Board of the Neuro-Bsik Mouse Phenomics Consortium (consortium consisting of 5 universities and 2 companies), Rotterdam, The Netherlands.

January 2007: Chair, External Evaluation Committee, Laboratory of Neurobiology, University of Orleans, France.

January 2007 - present: Director, Mouse Facility Management Committee, University of Bordeaux 1, France.

January 2007 - December 2010: Member of the Scientific Advisory Board of the Leibniz Institute of Neurobiology, Magdeburg, Germany.

2007 - present: Member, Comité d'Ethique en Matière d'Expérimentation Animale pour la Région Aquitaine et Poitou-Charentes (regional ethics committee, comparable to IACUC), Bordeaux, FRANCE.

2008 - present: Member, Wiley-Blackwell Neuroscience Expert Network, Hoboken, NJ, USA.

- 2010 - present: Adjunct Director, Institut de Neurosciences Cognitives et Intégratives d'Aquitaine, University of Bordeaux and CNRS, Bordeaux/Talence.
- 2010 - present: Member, External Advisory Committee, Intellectual and Developmental Disabilities Research Center, University of Massachusetts Medical School, Worcester, MA, USA.

### List of Publications

#### Peer-reviewed articles

- 1/ A.F.M. Schoots, **W.E. Crusio**, and J.H.F. van Abeelen. Zinc-induced peripheral anosmia and exploratory behavior in two inbred mouse strains. *Physiology and Behavior* 21: 779-784, 1978.
- 2/ **W.E. Crusio**. A revision of the genus *Anubias* Schott. *Communications of the Agricultural University Wageningen* 79 (14): 1-48, 1979. Updated German version: Die Gattung *Anubias* Schott (Araceae). *Aqua Planta*, Sonderheft 1: 1-44, 1987. Electronic re-edition, 2009.
- 3/ **W.E. Crusio**, J.M.L. Kerbusch, and J.H.F. van Abeelen. The replicated diallel cross: A generalized method of analysis. *Behavior Genetics* 14: 81-104, 1984.
- 4/ W.J. van der Laarse, **W.E. Crusio**, S. Maslam, and J.H.F. van Abeelen. Genetic architecture of numbers of fast and slow muscle fibres in the mouse soleus muscle. *Heredity* 53: 643-647, 1984.
- 5/ **W.E. Crusio** and J. Bogner. Proposal to conserve 2515 *Barclaya* against *Hydrostemma* (Nymphaeaceae). *Taxon* 33: 517-519, 1984.
- 6/ B. Heimrich, H. Schwegler, and **W.E. Crusio**. Hippocampal variation between the inbred mouse strains C3H/HeJ and DBA/2: A quantitative-genetic analysis. *Journal of Neurogenetics* 2: 389-401, 1985.
- 7/ **W.E. Crusio** and J.H.F. van Abeelen. The genetic architecture of behavioural responses to novelty in mice. *Heredity* 56: 55-63, 1986.
- 8/ **W.E. Crusio**, G. Genthner-Grimm, and H. Schwegler. A quantitative-genetic analysis of hippocampal variation in the mouse. *Journal of Neurogenetics* 3: 203-214, 1986; reprinted in *Journal of Neurogenetics* 21: 197-208, 2007
- 9/ **W.E. Crusio** and J.H.F. van Abeelen. A comparison between the full diallel cross and the simplified triple-test cross. *Theoretical and Applied Genetics* 73: 27-30, 1986.
- 10/ **W.E. Crusio** and J.H.F. van Abeelen. Zinc-induced peripheral anosmia and behavioral responses to novelty in mice: A quantitative-genetic analysis. *Behavioral and Neural Biology* 48: 63-82, 1987.
- 11/ **W.E. Crusio**, H. Schwegler, and H.-P. Lipp. Radial-maze performance and structural variation of the hippocampus in mice: A correlation with mossy fibre distribution. *Brain Research* 425: 182-185, 1987.
- 12/ **W.E. Crusio** and H. Schwegler. Hippocampal mossy fiber distribution covaries with open-field habituation in the mouse. *Behavioural Brain Research* 26: 153-158, 1987.
- 13/ **W.E. Crusio**. A note on the analysis of reciprocal effects in diallel crosses. *Journal of Genetics* 66: 177-185, 1987.
- 14/ H. Schwegler, **W.E. Crusio**, H.-P. Lipp, and B. Heimrich. Water-maze learning in the mouse correlates with variation in hippocampal morphology. *Behavior Genetics* 18: 153-165, 1988.
- 15/ H. Schwegler, B. Heimrich, F. Keller, P. Renner, and **W.E. Crusio**. Strain-specific development of the mossy fiber system in organotypic cultures of the mouse hippocampus. *Neuroscience Letters* 87: 7-10, 1988.

- 16/ H. Schwegler, H.-P. Lipp, and **W.E. Crusio**. The NZB mouse: Hippocampal mossy fiber patterns and behavioral profiles of young and older animals. *Drug Development Research* 15: 297-305, 1988.
- 17/ B. Heimrich, H. Schwegler, **W.E. Crusio**, and W. Buselmaier. Substrain divergence in C3H inbred mice. *Behavior Genetics* 18: 671-674, 1988.
- 18/ **W.E. Crusio**, H. Schwegler, and J.H.F. van Abeelen. Behavioral responses to novelty and structural variation of the hippocampus in mice. I. Quantitative-genetic analysis of behavior in the open-field. *Behavioural Brain Research* 32: 75-80, 1989.
- 19/ **W.E. Crusio**, H. Schwegler, and J.H.F. van Abeelen. Behavioral responses to novelty and structural variation of the hippocampus in mice. II. Multivariate genetic analysis. *Behavioural Brain Research* 32: 81-88, 1989.
- 20/ **W.E. Crusio**, H. Schwegler, I. Brust, and J.H.F. van Abeelen. Genetic selection for novelty-induced rearing behavior in mice produces changes in hippocampal mossy fiber distributions. *Journal of Neurogenetics* 5: 87-93, 1989.
- 21/ I. Bär, H. Schwegler, and **W.E. Crusio**. Hippocampal mossy fibre distribution in chimaeric mice. *Anatomischer Anzeiger* 168: 223-227, 1989.
- 22/ H.-P. Lipp, H. Schwegler, **W.E. Crusio**, D. Wolfer, M.-C. Leisinger-Trigona, B. Heimrich, and P. Driscoll. Using genetically-defined rodent strains for the identification of hippocampal traits relevant for two-way avoidance learning: A non-invasive approach. *Experientia* 45: 845-859, 1989.
- 23/ J.H.F. van Abeelen, C.J.J.G. Janssens, **W.E. Crusio**, and W.J.A.G. Lemmens. Y-chromosomal effects on discrimination learning and hippocampal asymmetry in mice. *Behavior Genetics* 19: 543-549, 1989.
- 24/ C. Cohen-Salmon, L. Lhotellier, **W.E. Crusio**, and R. Ward. A note on the genetics of unilateral senile cataract in mice. *Growth, Development and Aging* 53: 43-45, 1989.
- 25/ H. Schwegler, **W.E. Crusio**, and I. Brust. Hippocampal mossy fibers and radial-maze learning in the mouse: A correlation with spatial working memory but not with non-spatial reference memory. *Neuroscience* 34: 293-298, 1990.
- 26/ **W.E. Crusio**. Estimating heritabilities in quantitative behavior genetics: A station passed. *Behavioral and Brain Sciences* 13: 127-128, 1990.
- 27/ **W.E. Crusio**. HOMAL: a computer program for selecting adequate data transformations. *Journal of Heredity* 81: 173, 1990.
- 28/ R. Gerlai, **W.E. Crusio**, and V. Csányi. Inheritance of species-specific behaviors in the paradise fish (*Macropodus opercularis*): A diallel study. *Behavior Genetics* 20: 487-498, 1990.
- 29/ F. Vogel, **W.E. Crusio**, C. Kovac, J.-P. Fryns, and M. Freund. Selective advantage of fra (X) heterozygotes. *Human Genetics* 86: 25-32, 1990.
- 30/ **W.E. Crusio**, I.M. Bär, H. Schwegler, and W. Buselmaier. A multivariate morphometric analysis of hippocampal anatomical variation in C57BL/6 <-> BALB/c chimeric mice. *Brain Research* 535: 343-346, 1990.
- 31/ **W.E. Crusio**. Intelligent quantitative genetics: Asking the right questions. *Cahiers de Psychologie Cognitive/European Bulletin of Cognitive Psychology* 10: 619-625, 1990.
- 32/ **W.E. Crusio**, J.-Y. Bertholet, and H. Schwegler. No correlations between spatial and non-spatial reference memory in a T-maze task and hippocampal mossy fibre distribution in the mouse. *Behavioural Brain Research* 41: 251-259, 1990.
- 33/ **W.E. Crusio**, H. Schwegler, and J.H.F. van Abeelen. Behavioural and neuroanatomical divergence between two sublines of C57BL/6J inbred mice. *Behavioural Brain Research* 42: 93-97, 1991.
- 34/ **W.E. Crusio**. The neuropsychology of schizophrenia: A perspective from neurobehavioral genetics. *Behavioral and Brain Sciences* 14: 23-24, 1991.

- 35/ J.H.H.M. van Daal, P.J. Herbergs, **W.E. Crusio**, H. Schwegler, B.G. Jenks, W.A.J.G. Lemmens, and J.H.F. van Abeelen. A genetic-correlational study of hippocampal structural variation and variation in exploratory activities of mice. *Behavioural Brain Research* 43: 57-64, 1991.
- 36/ J.H.H.M. van Daal, B.G. Jenks, **W.E. Crusio**, W.A.J.G. Lemmens, and J.H.F. van Abeelen. A genetic-correlational study of hippocampal neurochemical variation and variation in exploratory activities of mice. *Behavioural Brain Research* 43: 65-72, 1991.
- 37/ J.-Y. Bertholet and **W.E. Crusio**. Spatial and non-spatial spontaneous alternation and hippocampal mossy fibre distribution in nine inbred mouse strains. *Behavioural Brain Research* 43: 197-202, 1991.
- 38/ **W.E. Crusio**. No evolution without genetic variation. *Behavioral and Brain Sciences* 14: 267, 1991.
- 39/ H. Schwegler, **W.E. Crusio**, H.-P. Lipp, I. Brust, and G.G. Mueller. Early postnatal hyperthyroidism alters hippocampal circuitry and improves radial-maze learning in adult mice. *Journal of Neuroscience* 11: 2102-2106, 1991.
- 40/ **W.E. Crusio** and H. Schwegler. Early postnatal hyperthyroidism improves both working and reference memory in a spatial radial-maze task in adult mice. *Physiology and Behavior* 50: 259-261, 1991.
- 41/ **W.E. Crusio**. COMPVAR: A computer program for iteratively estimating components of variance in cross-breeding experiments. *Journal of Heredity* 82: 359, 1991.
- 42/ **W.E. Crusio**. Genetic effects on "environmental" measures: Consequences for behavior-genetic analysis. *Behavioral and Brain Sciences* 14: 393, 1991.
- 43/ H. Schwegler, G.G. Mueller, **W.E. Crusio**, L. Szemess, and L. Seress. Hippocampal morphology and spatially-related behavior in Long Evans and CFY rats. *Hippocampus* 3: 1-7, 1993.
- 44/ **W.E. Crusio**. Bi- and multivariate analyses of diallel crosses: A tool for the genetic dissection of neurobehavioral phenotypes. *Behavior Genetics* 23: 59-67, 1993.
- 45/ H. Schicknick, H.J. Hoffmann, R. Schneider, and **W.E. Crusio**. Genetic analysis of isolation-induced aggression in the mouse. III. Classical cross-breeding analysis of differences between two closely-related inbred strains. *Behavioral and Neural Biology* 59: 242-248, 1993.
- 46/ H.J. Hoffmann, R. Schneider, and **W.E. Crusio**. Genetic analysis of isolation-induced aggression. II. Postnatal environmental influences in AB mice. *Behavior Genetics* 23: 391-394, 1993.
- 47/ N. Nek, H. Schwegler, **W.E. Crusio**, and M. Frotscher. Are the fine-structural characteristics of mouse hippocampal mossy fiber synapses determined by the density of mossy fiber axons? *Neuroscience Letters* 158: 75-78, 1993.
- 48/ **W.E. Crusio**, H. Schwegler, and I. Brust. Covariations between hippocampal mossy fibres and working and reference memory in spatial and non-spatial radial maze tasks in mice. *European Journal of Neuroscience* 5: 1413-1420, 1993.
- 49/ L. Jamot, J.-Y. Bertholet, and **W.E. Crusio**. Hereditary neuroanatomical divergence between two substrains of C57BL/6J inbred mice entails differential radial-maze learning. *Brain Research* 644: 352-356, 1994.
- 50/ F. Sluyter, L. Jamot, G.A. van Oortmerssen, and **W.E. Crusio**. Hippocampal mossy fiber distributions in mice selected for aggression. *Brain Research* 646: 145-148, 1994.
- 51/ P.-V. Guillot, P.L. Roubertoux, and **W.E. Crusio**. Hippocampal mossy fiber distributions and intermale aggression in seven inbred mouse strains. *Brain Research* 660: 167-169, 1994.

- 52/ H. Schwegler and **W.E. Crusio**. Covariations between radial-maze learning and structural variations of septum and hippocampus in rodents. *Behavioural Brain Research* 67: 29-41, 1995.
- 53/ R.A. Hensbroek, F. Sluyter, P.-V. Guillot, G.A. van Oortmerssen, and **W.E. Crusio**. Y chromosomal effects on hippocampal mossy fiber distributions in mice selected for aggression. *Brain Research* 682: 203-206, 1995.
- 54/ R. Gerlai and **W.E. Crusio**. Organization of motor and posture patterns in paradise fish (*Macropodus opercularis*): environmental and genetic components of phenotypical correlation structures. *Behavior Genetics* 25: 385-396, 1995.
- 55/ **W.E. Crusio**. The sociopathy of sociobiology. *Behavioral and Brain Sciences* 18: 552, 1995.
- 56/ P.-V. Guillot, F. Sluyter, A. Laghmouch, P.L. Roubertoux, and **W.E. Crusio**. Hippocampal morphology in the inbred mouse strains NZB and CBA/H and their reciprocal congenics for the nonpseudoautosomal region of the Y chromosome. *Behavior Genetics* 26: 1-6, 1996.
- 57/ **W.E. Crusio**. Gene-targeting studies: New methods, old problems. *Trends in Neurosciences* 19: 186-187, 1996.
- 58/ **W.E. Crusio** and A. Schmitt. Prenatal effects of parity on behavioral ontogeny in mice. *Physiology and Behavior* 59: 1171-1174, 1996.
- 59/ H.-P. Lipp, R.L. Collins, Z. Hausheer-Zarmakupi, M.-C. Leisinger-Trigona, **W.E. Crusio**, M. Nosten-Bertrand, P. Signore, H. Schwegler, and D.P. Wolfer. Paw preference and intra/infrapyramidal mossy fibers in the hippocampus of the mouse. *Behavior Genetics* 26: 379-390, 1996.
- 60/ **W.E. Crusio**. The neurobehavioral genetics of aggression. *Behavior Genetics* 26: 459-461, 1996.
- 61/ H. Schwegler, M. Boldyreva, R. Linke, J. Wu, K. Zilles, and **W.E. Crusio**. Genetic variation in the morphology of the septo-hippocampal cholinergic and GABAergic systems in mice. II. Morpho-behavioral correlations. *Hippocampus* 6: 535-545, 1996.
- 62/ **W.E. Crusio**. The hunting of the hippocampal function. *Behavioral and Brain Sciences* 19: 767-768, 1997.
- 63/ A. Laghmouch, J.-Y. Bertholet, and **W.E. Crusio**. Hippocampal anatomy and open-field behavior in *Mus musculus domesticus* and *Mus spretus* inbred mice. *Behavior Genetics* 27: 67-73, 1997.
- 64/ **W.E. Crusio**. Neuropsychological inference using a microphenological approach does not need a locality assumption. *Behavioral and Brain Sciences* 20: 517-518, 1997.
- 65/ G. Chapouthier, J.-M. Launay, P. Venault, C. Breton, P.L. Roubertoux, and **W.E. Crusio**. Genetic selection of mouse lines differing in sensitivity to a benzodiazepine receptor inverse agonist. *Brain Research* 787: 85-90, 1998.
- 66/ **W.E. Crusio** and A. Schmitt. A multivariate quantitative-genetic analysis of behavioral development in mice. *Developmental Psychobiology* 32: 339-351, 1998.
- 67/ **W.E. Crusio**. The genetic dissection of brain-behaviour relationships: An introduction to neurobehavioural genetics. *Behavioural Brain Research* 95: 1-2, 1998.
- 68/ **W.E. Crusio**. Are there psychotic Neanderthals amongst us? *Cahiers de Psychologie Cognitive/Current Psychology of Cognition* 17: 1156-1159, 1998.
- 69/ F. Sluyter, C.C.M. Marican, and **W.E. Crusio**. Further phenotypical characterization of two substrains of C57BL/6J inbred mice differing by a spontaneous single-gene mutation. *Behavioural Brain Research* 98: 39-43, 1999.

- 70/ **W.E. Crusio.** Using spontaneous and induced mutations to genetically-dissect brain and behavior. *Trends in Neurosciences* 22: 100-102, 1999. Reprinted in *Brain Research* 835: iv-vii, 1999.
- 71/ F. Sluyter, C.C.M. Marican, P.L. Roubertoux, and **W.E. Crusio.** Radial maze learning in two inbred mouse strains and their reciprocal congenics for the non-pseudoautosomal region of the Y chromosome. *Brain Research* 835: 68-73, 1999.
- 72/ P.-V. Guillot, F. Sluyter, **W.E. Crusio,** and G. Chapouthier. Mice selected for differences in sensitivity to a benzodiazepine receptor inverse agonist vary in intermale aggression. *Neurogenetics* 2: 171-175, 1999.
- 73/ **W.E. Crusio.** Behavioral neurogenetics beyond determinism. *Behavioral and Brain Sciences* 22: 890-891, 1999.
- 74/ K. Zilles, J. Wu, **W.E. Crusio,** and H. Schwegler. Water maze and radial maze learning and the density of binding sites of glutamate, GABA and serotonin receptors in the hippocampus of inbred mouse strains. *Hippocampus*, 10: 213-225, 2000.
- 75/ C. Suaudeau, D. Rinaldi, E. Lepicard, P. Venault, **W.E. Crusio,** J. Costentin, and G. Chapouthier. Divergent levels of anxiety in mice selected for differences in sensitivity to a convulsant agent. *Physiology and Behavior* 71: 517-523, 2000.
- 76/ J. Payer, Y.S. Mineur, W. Pinoteau, I. LeRoy, and **W.E. Crusio.** Neuroanatomy of cerebellum and olfactory bulb in a substrain of C57BL/6J inbred mice carrying a spontaneous mutation. *Physiology and Behavior* 73: 827-831, 2001.**W.E. Crusio.** *Genes, Brain and Behavior.* aiming for a new synthesis. *Genes, Brain and Behavior* 1: 1-2, 2001.
- 78/ **W.E. Crusio.** Genetic dissection of mouse exploratory behaviour. *Behavioural Brain Research* 125: 127-132, 2001.C. Belzung, **W.E. Crusio,** and R.T. Gerlai. Behavioral neurogenetics, the genetic dissection of brain and behavior. *Brain Research Bulletin* 57: 1, 2002.
- 80/ M. Blin, **W.E. Crusio,** T. Hévor, and J.-F. Cloix. Chronic inhibition of glutamine synthetase is not associated with impairment of brain functions. *Brain Research Bulletin* 57: 11-15, 2002.
- 81/ Y.S. Mineur and **W.E. Crusio.** Behavioral and neuroanatomical characterization of FVB/N inbred mice. *Brain Research Bulletin*, 57: 41-47, 2002.
- 82/ **W.E. Crusio** and A. Routtenberg. Targeting genes to elucidate hippocampal function. *Hippocampus* 12: 2-3, 2002.
- 83/ Y.S. Mineur, F. Sluyter, S. de Wit, B.A. Oostra, and **W.E. Crusio.** Behavioral and neuroanatomical characterization of the *Fmr1* knockout mouse. *Hippocampus* 12: 39-46, 2002.
- 84/ **W.E. Crusio.** "My mouse has no phenotype". *Genes, Brain and Behavior* 1: 71, 2002.
- 85/ R.W. Williams, J. Dubnau, M.-A. Enoch, L. Flaherty, F. Sluyter, K.S. Gannon, S.C. Maxson, C.A.L. Riedl, K.D. Williams, A. Holmes, V.J. Bolivar, and **W.E. Crusio.** Hot topics in behavioral and neural genetics. *Genes, Brain and Behavior* 1: 117-130, 2002.
- 86/ D.P. Wolfer, **W.E. Crusio,** and H.-P. Lipp. Knock-out mice: simple solutions to the problems of genetic background and flanking genes. *Trends in Neurosciences* 25: 336-340, 2002.
- 87/ **W.E. Crusio.** *Genes, Brain and Behavior* entering its second year. *Genes, Brain and Behavior* 2: 1-2, 2003.
- 88/ Y.S. Mineur, D.J. Prasol, C. Belzung, and **W.E. Crusio.** Agonistic behavior and unpredictable chronic mild stress in mice. *Behavior Genetics* 33: 513-519, 2003.
- 89/ L. Flaherty, O. Abiola, J.M. Angel, P. Avner, A.A. Bachmanov, J.K. Belknap, B. Bennett, E.P. Blankenhorn, D.A. Blizard, V. Bolivar, G.A. Brockmann, K.J. Buck,

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- 3/ **W.E. Crusio**. Quantitative Genetics. In: D. Goldowitz, D. Wahlsten, and R. Wimer (Eds.), *Techniques for the Genetic Analysis of Brain and Behavior: Focus on the Mouse*. Techniques in the Behavioral and Neural Sciences, Volume 8, Elsevier, Amsterdam, The Netherlands, pp. 231-250, 1992.
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**Books and special journal issues**

- 1/ **W.E. Crusio** (Ed.). *Syllabus*. Première Ecole d'Eté Franco-Américaine sur Neurogénétique Comportementale, Paris, France, 334 pp., 1995.
- 2/ **W.E. Crusio** (Ed.). *Programme - Résumés - Abstracts*. Première Ecole d'Eté Franco-Américaine sur Neurogénétique Comportementale, Paris, France, 23 pp., 1995.
- 3/ **W.E. Crusio** (Ed.). Abstracts: First French-American Summer School on Neurobehavioral Genetics. *Behavior Genetics* 26: 185-190, 1996.
- 4/ **W.E. Crusio** (Ed.). Special issue, The Neurobehavioral Genetics of Aggression. *Behavior Genetics* 26: 459-504, 1996.
- 5/ **W.E. Crusio** (Ed.). *Program - Abstracts*. Second Annual French-American Symposium on Heredity, Nervous System, and Behavior, Washington, DC, USA, 22 pp., 1996.
- 6/ **W.E. Crusio** (Ed.). Abstracts: Second Annual French-American Symposium on Heredity, Nervous System, and Behavior. *Behavior Genetics* 27: 259-267, 1997.
- 7/ **W.E. Crusio** (Ed.). *Programme - Résumés - Abstracts*. Troisième Ecole d'Eté Franco-Américaine sur Neurogénétique Comportementale, Orléans, France, 24 pp., 1997.
- 8/ **W.E. Crusio** (Ed.). *Programme - Résumés - Abstracts*. Third French-American Symposium on Heredity, Nervous System, and Behavior, Orléans, France, 17 pp., 1997.
- 9/ **W.E. Crusio** (Ed.). *Program*. First Annual General Meeting, European Behavioural and Neural Genetics Society, Orléans, France, 28 pp., 1997.
- 10/ **W.E. Crusio** (Ed.). Special issue, Neurobehavioural Genetics. *Behavioural Brain Research* 95: 1-142, 1998.
- 11/ **W.E. Crusio** and R.T. Gerlai (Eds.). *Handbook of Molecular-Genetic Techniques for Brain and Behavior Research*. Techniques in the Behavioral and Neural Sciences, Elsevier, Amsterdam, The Netherlands, xxvii+994 pp., 1999.
- 12/ R. Gerlai and **W.E. Crusio** (Eds.). Special issue, Molecular Behavior Genetics of the Mouse, *Physiology and Behavior*, 73: 671-886, 2001.
- 13/ C. Belzung, R. Gerlai, and **W.E. Crusio** (Eds.). Special issue, Behavioural and Neural Genetics, *Brain Research Bulletin*, 57: 1-131, 2002.
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- 2/ **W.E. Crusio**. Schilcher, F. von: Vererbung des Verhaltens. Eine Einführung für Biologen, Psychologen und Mediziner. *Theoretical and Applied Genetics* 78: 184, 1989.
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- 8/ **W.E. Crusio**. Books in short. *Genes, Brain and Behavior* 6: 208, 2007.
- 9/ **W.E. Crusio**. Encyclopedia of Biostatistics. P. Armitage and T. Colton (Eds.). *Genes, Brain and Behavior* 6: 304, 2007.
- 10/ **W.E. Crusio**. Book reviews. *Genes, Brain and Behavior* 7:831-832, 2008.

#### Computer-program manuals and non-refereed articles

- 1/ **W.E. Crusio**. *HOMAL. A scaling procedure to select adequate data transformations. Release 1.0.* Institut für Humangenetik und Anthropologie, Universität de Heidelberg, Germany, 39 pp., 1989; *Release 1.01.* 39 pp., 1990.
- 2/ **W.E. Crusio**. *COMPVAR. Iteratively estimating components of variance in crossbreeding experiments.* Institut für Humangenetik und Anthropologie, Universität de Heidelberg, Germany, 12 pp., 1990.
- 3/ P.L. Roubertoux and **W.E. Crusio**. Génétique et cognition. *Courrier du CNRS* 79: 80, 1992.
- 4/ J.-Y. Bertholet, L. Jamot, and **W.E. Crusio**. Effets neuroanatomiques et comportementaux d'une alcoolisation prénatale chez trois lignées de souris consanguines: résultats préliminaires. *Cahiers de l'Institut de Recherches Scientifiques sur les Boissons* 11: 71-73, 1993.
- 5/ **W.E. Crusio**. *HOMAL for PC. Release 2.0.* CNRS URA 1294, Paris, France, 2 pp., 1993.
- 6/ **W.E. Crusio**. History and goals of neurobehavioral genetics. In: **W.E. Crusio** (Ed.), *Syllabus*. Première Ecole d'Eté Franco-Américaine sur Neurogénétique Comportementale, Paris, France, 2 pp., 1995.
- 7/ **W.E. Crusio**. Quantitative-genetic methods for the analysis of brain and behavior. In: B.C. Jones (Ed.), *Syllabus*. Second French-American Summer School on Neurobehavioral Genetics, State College, PA, USA, 17 pp., 1996. Revised editions: B.C. Jones (Ed.), *Syllabus*. Third French-American Summer School on Neurobehavioral Genetics, Orléans, France, pp. 22-36, 1997; B.C. Jones et P. Mormède (Eds.), *Syllabus*. Fourth French-American Summer School on Neurobehavioral Genetics, Greeley, CO, USA, pp. 11-24, 1998.
- 8/ **W.E. Crusio**. Genetic background and expression of targeted mutations. *Compte Rendu*, 14èmes Journées d'Etude "L'animal de laboratoire en 1997", IFFA/CREDO-Institut Pasteur, Paris, France, 5 pp., 1997.

#### Abstracts

Several abstracts of oral and poster presentations at scientific meetings are published each year.

#### Teaching experience

September 1975 - August 1976: Biology teacher, Thomas More College (High School), Oudenbosch, THE NETHERLANDS.

February 1979 - August 1979: Biology teacher, Stedelijke Scholengemeenschap (High School) and Rijks Pedagogische Akademie (teacher's training college), Middelburg, THE NETHERLANDS.

October 1979 - May 1984: Instructor (Animal Physiology), University of Nijmegen, THE NETHERLANDS.

June 1984 - December 1987: Instructor (General Genetics and Human Genetics), University of Heidelberg, GERMANY.

November 1991: Instructor (Anatomy and Development of Cognitive Functions) UFR Necker - Enfants Malades, University Paris V René Descartes, Paris, FRANCE.

- October 1995: Director, Première Ecole d'Eté Franco-Américaine en Neurogénétique Comportementale/First French-American Summerschool on Neurobehavioral Genetics, Paris, FRANCE.
- October 1995-present: Instructor (Quantitative Genetics), Ecole d'Eté Franco-Américaine en Neurogénétique Comportementale/ French-American Summerschool on Neurobehavioral Genetics, held annually at different locations in Europe and the USA (2006: Brazil).
- October 1995 - October 1999: Instructor (Behavioral Neurogenetics of the Mouse), Centre d'Enseignement de l'Institut Pasteur, Paris, FRANCE.
- September 1997: Director, Troisième Ecole d'Eté Franco-Américaine en Neurogénétique Comportementale/Third French-American Summerschool on Neurobehavioral Genetics, Orléans, FRANCE.
- February 1998: Instructor, Diplôme des Etudes Approfondie "Neurosciences", University Pierre et Marie Curie (Paris VI), Paris, FRANCE.
- November 1998-November 1999: Instructor, Diplôme des Etudes Approfondie "Biology du Comportement" (Behavioral Biology), University Paris XIII, Villetaneuse, FRANCE.
- February 2000: Instructor (Genetics of Laboratory Animals), Formation d'Habilitation d'Expérimentation sur Animaux Vertébrés Vivants, Groupement d'Etablissements (GRETA) Loiret Centre, Paris, FRANCE.
- August 2002: Director of the Huitième Ecole d'Eté Internationale en Neurogénétique Comportementale/Eighth International Summerschool on Neurobehavioral Genetics, Worcester, MA, USA.
- 2002-2004: Instructor, Basis of Brain Disease Course, University of Massachusetts Medical School, Worcester, MA, USA.
- April 2004: Instructor, Psychobiology Advanced Topics (Behavior Genetics Writing, Intensive Course for undergrads) and Seminar in Physiological Psychology (Behavior Genetics for graduate students), University of Hawai'i at Manoa, Honolulu, HI, USA.
- November 2006: Instructor, Neuroscience Master's Course, Autonomous University of Barcelona, Barcelona, Spain.
- June 2007: Instructor, "Neurotrain" Summer School of the Federation of the European Neuroscience Societies on "Choosing the right models for research on cognition and its disturbances", Ofir, Portugal.
- February 2009: Instructor, Neuroscience Master's Course, Université de Bordeaux 1, Bordeaux, France.

### ***Contributions at scientific meetings***

#### **Oral presentations at international meetings**

- 1/ Quantitative-genetic analyses of exploratory behavior in mice, using olfactory capability as a macro-environmental variable. 12th Annual Meeting, Behavior Genetics Association, Fort Collins, USA, June 1982.
- 2/ Adaptive value of mouse behaviors: Usefulness of different cross-breeding approaches. 13th Annual Meeting, Behavior Genetics Association, Symposium "Experimental Approaches to Behavioral Evolution in Rats and Mice". London, UK, July 1983 (invited).
- 3/ Zinc-induced peripheral anosmia and mouse exploratory behavior: A quantitative-genetic analysis. 15th Annual Meeting, Behavior Genetics Association, State College, USA, June 1985.
- 4/ A new method for testing the assumptions underlying diallel-cross analyses. 15th Annual Meeting, Behavior Genetics Association, State College, USA, June 1985.

- 5/ Discussant. Colloquium on Genetics, Neurogenetics and Aggression, Aussois, FRANCE, March 1988 (invited).
- 6/ Multivariate quantitative-genetic analysis of behavioral responses to novelty and structural variation of the hippocampus in mice. 18th Annual Meeting of the Behavior Genetics Association, Symposium "Neurobehavioral Genetics", Nijmegen, THE NETHERLANDS, June 1988 (invited).
- 7/ Genetic selection for novelty-induced rearing behavior in mice produces changes in hippocampal mossy fiber distributions. 18th Annual Meeting of the Behavior Genetics Association, Nijmegen, THE NETHERLANDS, June 1988.
- 8/ Genetic correlations between hippocampal mossy fiber distribution and open-field behavior in the mouse. 20th Annual Meeting of the European Brain and Behaviour Society, Special Interest Session "Animal Models in Brain and Behaviour Research", Zurich, SWITZERLAND, September 1988 (invited).
- 9/ Discussant. Workshop "Teaching Behavior Genetics", 20th Annual Meeting of the Behavior Genetics Association, Aussois, FRANCE, June 1990 (invited).
- 10/ Discutant. Workshop "Recent Developments in Behavior Genetics", 20th Annual Meeting of the Behavior Genetics Association, Aussois, FRANCE, June 1990 (invited).
- 11/ Spatial and non-spatial spontaneous alternation and hippocampal anatomy in nine inbred mouse strains. 20th Annual Meeting of the Behavior Genetics Association, Aussois, FRANCE, June 1990.
- 12/ Spatial and non-spatial reference memory in a T-maze task: No correlation with hippocampal mossy fiber distribution in the mouse. 20th Annual Meeting of the Behavior Genetics Association, Aussois, FRANCE, June 1990.
- 13/ Genetically-determined variation in hippocampal morphology and radial-maze learning in mice. 20th Annual Meeting of the Behavior Genetics Association, Symposium "Neurobehavioral Genetics", Aussois, FRANCE, June 1990 (invited).
- 14/ Behavioral and neuroanatomical substrain divergence in C57BL/6J inbred mice. 20th Annual Meeting of the Behavior Genetics Association, Aussois, FRANCE, June 1990
- 15/ Early postnatal hyperthyroidism alters hippocampal circuitry and improves learning in spatial radial-maze tasks in adult mice. 12th Low Countries Meeting, Troponwerke, Cologne, GERMANY, April 1991.
- 16/ Multivariate quantitative-genetic analysis of two-way active avoidance learning, locomotor activity, and hippocampal mossy fibers in mice. Symposium "Neurobehavioral-Genetic Dissection of Two-Way Active Avoidance Learning in Mice and Rats", 22nd Annual Meeting of the Behavior Genetics Association, Boulder, USA, July 1992 (invited).
- 17/ Chairman. Round Table "Genetics as a tool to dissect the relationships between behaviors or between brain and behaviors", Jacques Monod Conference on "Genetics, Neurogenetics and Behavior", Aussois, FRANCE, October, 1992 (invited).
- 18/ Genetic covariations between exploratory behavior and hippocampal mossy fibers in mice. Symposium "Behavioural neurogenetics in mammals", 21st Göttingen Neurobiology Conference, Göttingen, GERMANY, June 1993 (invited).
- 19/ Canalization of behavioral development and heterozygosity in mice. 23rd Annual Meeting of the Behavior Genetics Association, Symposium "Regulation of Neurobehavioral Development", Sydney, AUSTRALIE, July 1993 (invited).
- 20/ A multivariate quantitative-genetic analysis of behavioral development in mice. 23rd Annual Meeting of the Behavior Genetics Association, Sydney, AUSTRALIE, July 1993.
- 21/ Genetic covariations between behaviour and anatomical variations in the hippocampus of the mouse. XVII International Genetics Congress, Symposium

- "Behaviour Genetics and Brain Function", Birmingham, UK, August 1993 (invited).
- 22/ Quantitative-genetic approaches towards the analysis of phenogenetic and phylogenetic aspects of the causation of behavior. XXIII International Ethological Conference, Symposium "Behavior-Genetic Analysis", Torremolinos, SPAIN, September 1993 (invited).
  - 23/ Natural selection on hippocampal circuitry underlying spatial and exploratory behaviour in mice: Quantitative-genetic analysis. NATO Advanced Study Institute, "Behavioural brain research in naturalistic and semi-naturalistic settings: possibilities and perspectives", Maratea, ITALY, September 1994 (invited).
  - 24/ The causation of exploration in mice: Natural selection on underlying hippocampal circuitry. First French-American Symposium on "Heredity, Central Nervous System and Behavior", Richmond, USA, June 1995 (invited).
  - 25/ Genetic dissection of brain-behavior relationships in mice: hippocampal mossy fibers and learning in radial-maze tasks. Jacques Monod Conference "Genetics, Neurogenetics and Behavior II", La-Londe-Les-Maures, FRANCE, October, 1995.
  - 26/ Hippocampal morphometry and behavior in mice. First workshop of the Euro-Asian Commission of the International Brain Research Organization, Izmir, TURQUIE, December 1995 (invited).
  - 27/ Genetic correlations between hippocampal neuroanatomical variations and attack behavior in mice. Colloque "Heredity, Nervous System, and Behavior", Symposium "Neurobehavioral Genetics and Aggression", Washington, D.C., USA, November 1996 (invited).
  - 28/ Neurogenetic analysis of brain and behavior. Joint European Brain and Behaviour Society-BIOTEC 96 Congress "Biotechnology in Brain and Behavior Research", Düsseldorf, GERMANY, November 1996 (invited).
  - 29/ Hippocampal involvement in spatial and non-spatial radial maze learning in inbred mice. 29th Annual General Meeting of the European Brain and Behaviour Society, Symposium "Genetic models: How can they help to identify the neural basis of behaviour", Tutzing, GERMANY, September 1997 (invited).
  - 30/ Spatial and non-spatial radial maze learning in inbred mice. Session "Learning and Memory", Third French-American Symposium on "Heredity, Central Nervous System, and Behavior", Orléans, FRANCE, September 1997 (invited).
  - 31/ Arrière-fond génétique et expression des mutations ciblées. IFFA-CREDO and Institut Pasteur, 14èmes Journées d'Etude/30ème Anniversaire "L'animal de laboratoire en 1997", Paris, FRANCE, November 1997 (invited).
  - 32/ Aggressive genes? The genetics of brain and behavior. International Science Festival, Göteborg, SWEDEN, May 1998 (invited).
  - 33/ Phenotypical characterization of a single gene mutation affecting hippocampal anatomy in C57BL/6J inbred mice. Mini-summer school "Ecological Brain Research in Russia", Moscou and Field Station Chicti Lec, RUSSIE, August 1998 (invited).
  - 34/ The effects of prenatal exposure to ethanol on hippocampal neuroanatomy and spatial learning in a radial maze in three inbred mouse strains. Sixth World Congress on Psychiatric Genetics, Bonn, GERMANY, October 1998.
  - 35/ Hippocampal regulation of spatial and non-spatial strategies used by inbred mice to solve radial maze problems. 28th Annual Meeting of the Society for Neuroscience, Satellite Symposium "Knockouts and Mutants, Genetically Dissecting Brain and Behavior", San Diego, CA, USA, November 1998.
  - 36/ Génétique et agressivité: Sommes-nous esclaves de nos gènes ? Public Lecture, 8th Annual Meeting of the International Behavioral Neuroscience Society, Nancy, FRANCE, June 1999 (invited).

- 37/ Multivariate genetic analysis of hippocampal regulation of shuttle box performance in mice. 31st Annual General Meeting of the European Brain and Behaviour Society, Symposium "What genetically-defined animals can teach us about what is being learned in common laboratory tasks", Rome, ITALY, September 1999 (invited).
- 38/ Summer schools: An opportunity for training. The role of the embassies. Sixth meeting of the European scientific counselors group, French Embassy, Stockholm, SWEDEN, November 1999 (invited).
- 39/ What genetics can teach us about radial maze learning in mice. Symposium Behavioural Phenotyping of Mouse Mutants, Cologne, GERMANY, February 2000 (invited).
- 40/ Genetic dissection of mouse exploratory behavior. Symposium Behavioural Phenotyping of Mouse Mutants, Cologne, GERMANY, February 2000 (invited).
- 41/ Chair. Working group "Non-Cognitive Behaviour", Symposium Behavioural Phenotyping of Mouse Mutants, Cologne, GERMANY, February 2000 (invited).
- 42/ Aggressive genes? The genetics of brain and behavior. International Science Festival, Göteborg, SWEDEN, May 2000 (invited).
- 43/ Behavioral neurogenetics at the millenium: Problems and opportunities. Symposium "Genetic approaches for target discovery in mouse and rat models", Roche Genetics, Nutley, NJ, USA, May 2000 (invited).
- 44/ Neuroanatomical and behavioral evaluation of *Fmr1* knock-out mice. 25th Annual Winter Conference on the Neurobiology of Learning and Memory, Park City, UT, USA, January 2001 (invited).
- 45/ What genetics can teach us about spatial learning in mice. Symposium "Spatial Cognition and Anxiety", Paris, FRANCE, January 2001 (invited).
- 46/ Knock-out mice: some simple experimental solutions to the genetic background and flanking gene problems. 4th Annual Meeting of the International Behavioural and Neural Genetics Society, San Diego, CA, USA, November 2001.
- 47/ Chair. Behavioral phenotyping of rodents. Fifth International Conference on Methods and Techniques in Behavioral Research "Measuring Behavior 2005", Wageningen, THE NETHERLANDS, August 2005 (invited).
- 48/ How smart is my mouse? Opening Keynote Address, 3rd Annual Meeting "Molecular Genetics of the Mind", Heron Island, Queensland, AUSTRALIA, October 2005 (invited).
- 49/ How smart is my mouse? The genetic dissection of memory systems in the mouse. 15th Annual Meeting of the International Behavioral Neuroscience Society, Symposium "Genes meet behavior: a joint symposium between the International Behavioral Neuroscience Society and International Behavioural and Neural Genetics Society", Whistler, BC, CANADA, May 2006 (invited).
- 50/ Inferring learning and memory from behavioral performance in mice. "Neurotrain" Summer School of the Federation of the European Neuroscience Societies on "Choosing the right models for research on cognition and its disturbances", Ofir, Portugal, June 2007 (invited).
- 51/ Génétique et agression: Sommes-nous esclaves de nos gènes ?/ Genetik und Aggression: Sind wir die Sklaven unsere Gene? Humboldt-Kolleg "War and Peace: the Role of Science and Arts", Paris, FRANCE, Novembre 2007 (invité).

**Oral presentations at national meetings**

- 1/ Exploratie en habituatie bij de muis en de invloed van olfactorische stimuli. Nederlandse Contactgroep voor Gedragsgenetica, Utrecht, THE NETHERLANDS, December 1976 (invited).
- 2/ Olfactorische informatieverwerking en exploratief gedrag bij verschillende ingeteelde stammen van muizen. Nederlandse Contactgroep voor Gedragsgenetica, Amsterdam, THE NETHERLANDS, January 1980 (invited).
- 3/ Kwantitatief-genetische analyses van exploratief gedrag bij muizen. Nederlandse Contactgroep voor Gedragsgenetica, Utrecht, THE NETHERLANDS, November 1982 (invited).
- 4/ Kwantitatief-genetische analyses van exploratief gedrag bij muizen. Werkgemeenschap Ethologie, Texel, THE NETHERLANDS, December 1982.
- 5/ Mossige hippocampi zijn beter: Neuro-gedragsgenetisch onderzoek naar de functie van de hippocampus in exploratieve activiteit en leergedrag bij muizen. Nederlandse Contactgroep voor Gedragsgenetica, Nijmegen, THE NETHERLANDS, May 1987 (invited).
- 6/ Neurobehavioral-genetic investigations into the functioning of the mouse hippocampus. Société Française pour l'Etude du Comportement Animal, Groupe Génétique et Comportements, Tours, FRANCE, January 1988 (invited).
- 7/ Correlaties tussen radial-maze leren en structurele hippocampale variatie bij de muis. Nederlandse Contactgroep voor Gedragsgenetica, Nijmegen, THE NETHERLANDS, March 1989 (invited).
- 8/ Vroeg-postnatale hyperthyroidie verbetert radial-maze leren bij de muis. Nederlandse Contactgroep voor Gedragsgenetica, Amsterdam, THE NETHERLANDS, March 1991 (invited).
- 9/ Multivariate kwantitatief-genetische analyse van two-way active-avoidance leren, locomotorische activiteit en hippocampale mosvezels bij de muis. Nederlandse Contactgroep voor Gedragsgenetica, Het Spelderholt, Beekbergen, THE NETHERLANDS, March 1992 (invited).
- 10/ Quantitatief-genetische analyse van hippocampale mosvezeldistributie en leren in een radiaal-doolhof in twee substammen van C57BL/6J inteeltmuizen. Nederlandse Contactgroep voor Gedragsgenetica, Groningue, THE NETHERLANDS, February 1994 (invited).
- 11/ Effets neuroanatomiques et comportementaux d'une alcoolisation prénatale chez trois lignées de souris consanguines. 12ème Colloque de L'Institut de Recherches Scientifiques sur les Boissons, Paris, FRANCE, November 1994 (invited).
- 12/ Maternale prenatale alcoholconsumptie en neuroanatomie en leergedrag in drie inteeltstammen van de muis. Nederlandse Contactgroep voor Gedragsgenetica, Amsterdam, THE NETHERLANDS, March 1995 (invited).
- 13/ Vijfentwintig jaar Nederlandse gedragsgenetica. Nederlandse Contactgroep voor Gedragsgenetica, Leiden, THE NETHERLANDS, April 1996 (invited).
- 14/ Funktionele consequenties van neuroanatomische variatie in de hippocampus bij de muis. Nederlandse Contactgroep voor Gedragsgenetica, Leiden, THE NETHERLANDS, April 1996 (invited).
- 15/ Leerstrategien gebruikt door inteeltmuizen bij het oplossen van radial maze problemen. Nederlandse Contactgroep voor Gedragsgenetica, Nijmegen, THE NETHERLANDS, August 1997 (invited).
- 16/ Aggressieve genen: Zijn wij de slaven van onze genen? Nederlandse Contactgroep voor Gedragsgenetica, Amsterdam, PAYS-BAS, May 1999 (invited).
- 17/ What genetics can teach us about learning in mice. 33rd Annual Meeting of the Massachusetts Association of Science Supervisors, Worcester, MA, USA, May 2001 (invited).

- 18/ Aggressive genes? The genetics of brain and behavior. 33rd Annual Meeting of the Massachusetts Association of Science Supervisors, Worcester, MA, USA, May 2001 (invited).
- 19/ Hippocampal neurogenesis and behavior in the chronic mild stress mouse model of depression. Micro-colloque "Approches génétiques de la dépression modélisée chez la souris", Orléans, FRANCE, March 2005 (invited).
- 20/ Modèles murins de maladies neuropsychiatriques. Aspects comportementaux. Réunion annuelle de la Société de Circulation Et Métabolisme du Cerveau, Paris, FRANCE, January 2007 (invited plenary).
- 21/ How smart is my mouse? The genetic dissection of memory systems in the mouse. 6th Annual Meeting of the Turkish Neuroscience Society, Safranbolu, Turkey, April 2007 (invited plenary).
- 22/ A brief history of the Dutch "Contactgroep voor de Gedragsgenetica". Annual Meeting of the Dutch Behavior Genetics Contact Group, Utrecht, THE NETHERLANDS, March 2008 (invited).
- 23/ Mouse models of neuropsychiatric disorders. Annual Meeting of the Dutch Behavior Genetics Contact Group, Utrecht, THE NETHERLANDS, March 2008 (invited).
- 24/ Aggressive genes: Are we the slaves of our genes? Symposium "Neurosciences et souffrances psychiques: réflexions éthiques", Neuvième Colloque de la Société des Neurosciences, Bordeaux, FRANCE, May 2009 (invited).

#### Invited seminars

- 1/ Quantitativ-genetische Analysen von Neugierverhalten in der Maus. Institut für Humangenetik und Anthropologie, University of Heidelberg, GERMANY, February 1983.
- 2/ Möglichkeiten der quantitativen Genetik, dargestellt an Beispielen aus der Neurogenetik und Verhaltensgenetik an der Maus. Institut für Humangenetik, University of Bonn, GERMANY, February 1986.
- 3/ Quantitative-genetics: Theory and application with emphasis on the diallel cross. Groupe Génétique, Neurogénétique et Comportement, University René Descartes (Paris V), FRANCE, February 1988.
- 4/ Neurobehavioral-genetic investigations into the functioning of the mouse hippocampus. Groupe Génétique, Neurogénétique et Comportement, University René Descartes (Paris V), FRANCE, April 1988.
- 5/ Correlations between radial-maze learning and hippocampal structural variation in mice. Dept. of Behavior Genetics, University L. Eötvös, Göd, HUNGARY, April 1989.
- 6/ Corrélations génétiques entre l'apprentissage dans un labyrinthe radiaire et les fibres moussues intra- et infrapyramidales de l'hippocampe chez la souris. CNRS URA 1294, Génétique, Neurogénétique et Comportement, University René Descartes (Paris V), FRANCE, May 1989.
- 7/ Neuro-verhaltensgenetische Untersuchungen über die Funktion des Hippokampus im Neugier- und Lernverhalten bei der Maus. Institut für Neurobiology und Hirnforschung, Akademie der Wissenschaften der DDR, Magdeburg, DEMOCRATIC REPUBLIC GERMANY, July 1990.
- 8/ Multivariate-genetische Analyse von Shuttle-Box-Lernen und Hippokampusanatomie bei der Maus. Institut für Neurobiology und Hirnforschung, Magdeburg, GERMANY, April 1991.
- 9/ Behavioral correlates of hippocampal anatomical variations in mice (Alias: Do learning capabilities differ between French and German mice?). Dept. of Psychology, University of Toronto, Ontario, CANADA, August 1991.

- 10/ Behavioral correlates of hippocampal anatomical variations in mice (Alias: Do learning capabilities differ between French and German mice?). Dept. of Zoology, University of York, Ontario, CANADA, August 1991.
- 11/ Behavioral correlates of hippocampal anatomical variations in mice (Alias: Do learning capabilities differ between French and German mice?). Neurology Research, Children's Hospital, Harvard University, Boston, MA, USA, August 1991.
- 12/ Hippocampal mossy fibers and radial-maze learning in mice. Biobehavioral Sciences, University of Connecticut, Storrs, CT, USA, August 1991.
- 13/ Korrelationen zwischen Verhalten und anatomischer Variation des Hippokampus bei der Maus - oder: Lernen französische Mäuse besser als Deutsche? Abteilung für Vergleichende Neurobiology, Universität Ulm, GERMANY, September 1991.
- 14/ Exploratief gedrag en anatomische variatie in de hippocampus van de muis: Kwantitatief-genetische analyse. Vakgroep Dierfysiologie, Rijks University of Groningen, THE NETHERLANDS, December 1991.
- 15/ Ruimtelijk en niet-ruimtelijk geheugen en anatomische variatie in de hippocampus van de muis. Vakgroep Dierfysiologie, Rijks University of Groningen, THE NETHERLANDS, December 1991.
- 16/ Covariations génétiques entre comportements et variations anatomiques dans l'hippocampe chez la souris. INSERM U 259, Psychobiology des comportements adaptatifs, University of Bordeaux II, FRANCE, October 1993.
- 17/ Genetische co-variantie tussen gedrag en anatomische variaties in de hippocampus bij de muis. Psychoneuropharmacological Research Unit, University of Nijmegen, THE NETHERLANDS, December 1993.
- 18/ Covariations génétique entre l'apprentissage dans des labyrinthes et variations neuroanatomiques de l'hippocampe chez la souris. CNRS URA 1491, Neurobiology de l'Apprentissage et de la Mémoire, University of Paris Sud (Paris XI), FRANCE, December 1994.
- 19/ Genetic covariations between spatial learning and structural variation of the hippocampus in the mouse, or: do French and German mice learn differently? Dept. of Experimental Zoology, University of Nijmegen, THE NETHERLANDS, December 1994.
- 20/ Modélisation en génétique quantitative: La méthode de Kerbusch. Laboratoire de Statistique, CNRS URA 1323, University René Descartes (Paris V), Paris, FRANCE, March 1995.
- 21/ Hippocampal mossy fibres and radial maze learning in mice. Dept. of Psychology, University of Alberta, Edmonton, CANADA, June 1995.
- 22/ Functional consequences of neuroanatomical variations in the mouse hippocampus. Neuroscience Department, Genentech Inc., South San Francisco, CA, USA, May 1996.
- 23/ Neuroverhaltensgenetische Untersuchungen von Aggressionsverhalten bei Mensch und Maus. Sonderforschungsbereich 400, Molekulare Grundlagen zentralnervöser Erkrankungen, University of Bonn, GERMANY, July 1997.
- 24/ Génétique et aggression: Sommes-nous esclaves de nos gènes ? Muséum de l'Histoire Naturelle, Orléans, FRANCE, November 1998.
- 25/ Behavioral neurogenetics of aggression in man and mice: Are we slaves of our genes? Institute of Cell Biology, Eidgenössische Technische Hochschule, Zürich, SWITZERLAND, March 1999.
- 26/ Hippocampal mossy fibers and radial-maze learning abilities in inbred mice. McLaughlin Research Institute, Great Falls, MT, USA, July 1999.
- 27/ Hippocampal mossy fibers and radial-maze learning abilities in inbred mice. Portland Alcohol Research Center, Portland, OR, USA, July 1999.

- 28/ Neuroanatomical variations in the hippocampus and behavior in mice: What genetics can teach us about learning. Parke-Davis Pharmaceutical Research, Ann Arbor, MI, USA, October 1999.
- 29/ Génétique et agression: Sommes-nous esclaves de nos gènes? French Embassy, Stockholm, SWEDEN, November 1999.
- 30/ Summer schools: An opportunity for training. The role of the embassies. French Embassy, Stockholm, SWEDEN, November 1999.
- 31/ Neuroanatomical variations in the hippocampus and behavior in mice: What genetics can teach us about learning. Division of Geriatric Medicine, Karolinska Institute, Stockholm, SWEDEN, November 1999.
- 32/ Neuroanatomical variations in the hippocampus and behavior in mice: What genetics can teach us about learning. Dept. of Psychology, University of Alberta, Edmonton, CANADA, February 2000.
- 33/ Neuroanatomical variations in the hippocampus and behavior in mice: What genetics can teach us about learning. Brudnick Neuropsychiatric Research Institute, University of Massachusetts, Worcester, MA, USA, February 2000.
- 34/ Neuroanatomical variations in the hippocampus and behavior in mice: What genetics can teach us about learning. Shriver Center, Waltham, MA, USA, February 2000.
- 35/ Que nous enseigne la génétique sur les capacités d'apprentissage? European Brain Awareness Week, Tours, FRANCE, March 2000.
- 36/ What genetics can teach us about radial-maze learning in mice. Dept. of Psychology, Tufts University, Medford, MA, USA, February 2001.
- 37/ What genetics can teach us about radial-maze learning in mice. Biobehavioral Sciences Graduate Program, University of Connecticut, Storrs, CT, USA, March 2001.
- 38/ Behavioral neurogenetics of learning in mice. Taconic Inc., Albany, NY, USA, June 2001.
- 39/ Aggressive genes? The genetics of brain and behavior. Dept. of Biology, Wellesley College, Wellesley, MA, USA, June 2001.
- 40/ Using radial maze tasks to dissect learning in inbred and mutant mice. Dept. of Genetics, Rutgers University, Piscataway, N.J., USA, November 2002.
- 41/ Behavioral consequences of hereditary neuroanatomical variations in the mouse hippocampus. Neuroscience and Behavior Program, University of Massachusetts, Amherst, MA, USA, March 2003.
- 42/ Behavioral consequences of hereditary neuroanatomical variations in the mouse hippocampus. Dept. of Psychology, Dalhousie University, Halifax, Nova Scotia, Canada, March 2003.
- 43/ Genetic mouse models of psychiatric disorders. Dept. of Psychiatry Grand Rounds, University of Cincinnati, Cincinnati, OH, USA, May 2003.
- 44/ Behavioral consequences of hereditary neuroanatomical variations in the mouse hippocampus. Programs in Genetics and Neuroscience, University of Arizona, Tucson, AZ, USA, December 2003.
- 45/ Mouse models of neuropsychiatric disease. Dept. of Neurology Grand Rounds, University of Arizona, Tucson, AZ, USA, December 2003.
- 46/ Discussant. Forum "Getting It Published", University of Massachusetts Medical School, Worcester, MA, USA, February 2004.
- 47/ Mouse models of neuropsychiatric disease. Dept. of Psychology, University of Hawai'i at Manoa, Honolulu, HI, USA, April 2004.
- 48/ Mouse models of neuropsychiatric disease. Dept. of Biological Sciences, Wellesley College, Wellesley, MA, USA, May 2004.

- 49/ Hippocampal neurogenesis and behavior in the chronic mild stress mouse model of depression. CNS Discovery Research, Pfizer Inc., Groton, CT, USA, August 2004.
- 50/ Hippocampal neurogenesis and behavior in the chronic mild stress mouse model of depression. IFR Institut des Neurosciences de Bordeaux, Bordeaux, FRANCE, January 2005.
- 51/ Mouse models of neuropsychiatric disorders. CNRS UMR 7593 Vulnérabilité, Adaptation et Psychopathologie, Paris, FRANCE, January 2005.
- 52/ Dissection génétique chez la souris d'apprentissage spatiale et non-spatiale dans un labyrinthe radiaire. Laboratoire de Neurosciences Cognitives, CNRS UMR 5106, Talence, FRANCE, February 2005.
- 53/ Hippocampal neurogenesis and behavior in the chronic mild stress mouse model of depression. Laboratoire de Neurobiologie de l'Apprentissage, de la Mémoire et de la Communication, CNRS UMR 8620, Orsay, FRANCE, February 2005.
- 54/ Hippocampal neurogenesis and behavior in the chronic mild stress mouse model of depression. Shriver Center, Waltham, MA, USA, June 2005.
- 55/ Hippocampal neurogenesis and behavior in the chronic mild stress mouse model of depression. Wadsworth Center, Albany, NY, USA, July 2005.
- 56/ Hippocampal mossy fibers, neurogenesis, and behavior in inbred mice. Centre de Regulació Genòmica, Genes and Disease Program, Barcelona, Spain, May 2006.
- 57/ How smart is my mouse? The genetic dissection of memory systems in the mouse. Parc Recerca Biomèdica Barcelona, Barcelona, Spain, November 2006.
- 58/ Modèles murins de maladies neuropsychiatriques. Aspects comportementaux. Journées scientifiques, Ecole Doctorale de l'Université de Lille, Lille, FRANCE, September 2007.
- 59/ Mouse models of neuropsychiatric disorders. Institute of Medical Sciences, University of Aberdeen, Aberdeen, United Kingdom, July 2008.
- 60/ Hippocampal neurogenesis and behavior in the chronic mild stress mouse model of depression, Karolinska Institutet, Stockholm, Sweden, January 2009.

#### ***Organization of scientific meetings***

- 1/ 17th Annual Meeting of the Dutch Behavior Genetics Contact Group, Leiden, THE NETHERLANDS, January 1988.
- 2/ Symposium "Neurobehavioral Genetics", 18th Annual Meeting of the Behavior Genetics Association, Nijmegen, THE NETHERLANDS, June 1988.
- 3/ 18th Annual Meeting of the Dutch Behavior Genetics Contact Group, Nijmegen, THE NETHERLANDS, March 1989.
- 4/ 19th Annual Meeting of the Dutch Behavior Genetics Contact Group, Groningen, THE NETHERLANDS, March 1990.
- 5/ Symposium "Neurobehavioral Genetics", 20th Annual Meeting of the Behavior Genetics Association, Aussois, FRANCE, June 1990.
- 6/ 20th Annual Meeting of the Dutch Behavior Genetics Contact Group, Amsterdam, THE NETHERLANDS, March 1991.
- 7/ 21st Annual Meeting of the Dutch Behavior Genetics Contact Group, Het Spelderholt, Beekbergen, THE NETHERLANDS, March 1992.
- 8/ Symposium "Neurobehavioral-Genetic Dissection of Two-Way Active Avoidance Learning in Rats and Mice", 22nd Annual Meeting of the Behavior Genetics Association, Boulder, USA, July 1992.
- 9/ 22nd Annual Meeting of the Dutch Behavior Genetics Contact Group, Leiden, THE NETHERLANDS, March 1993.

- 10/ Symposium "Behavioural neurogenetics in mammals" (With Drs. H.-J. HOFFMANN and H. SCHICKNICK), 21st Göttingen Neurobiology Conference, Göttingen, GERMANY, June 1993.
- 11/ Symposium "Regulation of neurobehavioral development", 23rd Annual Meeting of the Behavior Genetics Association, Sydney, AUSTRALIA, July 1993.
- 12/ Workshop "Neurobehavioral Genetics" (with Prof. P.L. ROUBERTOUX), XVII International Genetics Congress, Birmingham, UK, August 1993.
- 13/ 23rd Annual Meeting of the Dutch Behavior Genetics Contact Group, Groningen, THE NETHERLANDS, February 1994.
- 14/ Symposium "Genetic analysis of brain-behavior relationships", 24th Annual Meeting of the Behavior Genetics Association, Barcelona, SPAIN, July 1994.
- 15/ Symposium "Neurobehavioral genetics of aggression", 24th Annual Meeting of the Behavior Genetics Association, Barcelona, SPAIN, July 1994.
- 16/ 24th Annual Meeting of the Dutch Behavior Genetics Contact Group, Amsterdam, THE NETHERLANDS, March 1995.
- 17/ Member of the Organizing Committee, First French-American Symposium "Heredity, Central Nervous System, and Behavior", Richmond, USA, June 1995.
- 18/ Session "Neurobehavioral genetics and evolution", First French-American Symposium "Heredity, Central Nervous System, and Behavior", Richmond, USA, June 1995.
- 19/ Director of the Première Ecole d'Eté Franco-Américaine en Neurogénétique Comportementale/First French-American Summerschool on Neurobehavioral Genetics, Paris, FRANCE, October 1995.
- 20/ Member of the Scientific Advisory Board, International Workshop on Stereology and Morphometry, Euro-Asian Commission of IBRO/Turkish Neuroscience Society, Izmir, Turquie, December 1995.
- 21/ 25th Annual Meeting of the Dutch Behavior Genetics Contact Group, Leiden, THE NETHERLANDS, April 1996.
- 22/ Member of the Organizing Committee, Deuxième Ecole d'Eté Franco-Américaine en Neurogénétique Comportementale/Second French-American Summerschool on Neurobehavioral Genetics, State College, USA, June 1996.
- 23/ Codirector (with Prof. Donald NASH), Second French-American Symposium on "Heredity, Central Nervous System, and Behavior", Satellite Symposium, Society for Neuroscience, Washington, USA, November 1996.
- 24/ Session "Recombinant DNA techniques in neurobehavioral genetic research" (with Dr. Robert GERLAI), Second French-American Symposium on "Heredity, Central Nervous System, and Behavior", Satellite Symposium, Society for Neuroscience, Washington, USA, November 1996.
- 25/ 26th Annual Meeting of the Dutch Behavior Genetics Contact Group, Nijmegen, THE NETHERLANDS, August 1997.
- 26/ Director of the Troisième Ecole d'Eté Franco-Américaine en Neurogénétique Comportementale/Third French-American Summerschool on Neurobehavioral Genetics, Orléans, FRANCE, September 1997.
- 27/ Director, Third French-American Symposium on "Heredity, Central Nervous System, and Behavior", Orléans, FRANCE, September 1997.
- 28/ Session "Learning and Memory" (with Dr. Robert GERLAI), Third French-American Symposium on "Heredity, Central Nervous System, and Behavior", Orléans, FRANCE, September 1997.
- 29/ Session "Ethics" (with Dr. Donald J. NASH), Third French-American Symposium on "Heredity, Central Nervous System, and Behavior", Orléans, FRANCE, September 1997.
- 30/ Local Host, First Annual Meeting of the European Behavioural and Neural Genetics Society, Orléans, FRANCE, September-October 1997.

- 31/ Scientific secretary of the Quatrième Ecole d'Eté Franco-Américaine en Neurogénétique Comportementale/Fourth French-American Summerschool on Neurobehavioral Genetics, Greeley, CO, USA, June 1998.
- 32/ Session "Animal Models", VIth World Congress of Psychiatric Genetics, Bonn, Germany, October 1998.
- 33/ Member of the Organizing Committee, Cinquième Ecole d'Eté Internationale en Neurogénétique Comportementale/Fifth International Summerschool on Neurobehavioral Genetics, Bordeaux, FRANCE, September 1999.
- 34/ Symposium "What genetically-defined animals can teach us about what is being learned in common laboratory tasks", 31st Annual General Meeting of the European Brain and Behaviour Society, Rome, ITALY, September 1999.
- 35/ Organizer, Second Annual Meeting of the International Behavioural and Neural Genetics Society "Knockouts and Mutants II: Genetically Dissecting Brain and Behavior", Key Largo, FL, USA, October 1999.
- 36/ Symposium "Schizophrenia: Flies, Mice, and Man", Second Annual Meeting of the International Behavioural and Neural Genetics Society "Knockouts and Mutants II: Genetically Dissecting Brain and Behavior", Key Largo, FL, USA, October 1999.
- 37/ Member of the Scientific Program Committee, Symposium Behavioural Phenotyping of Mouse Mutants, Cologne, GERMANY, February 2000.
- 38/ Session "Anxiety and Reactions to Novelty", Symposium Behavioural Phenotyping of Mouse Mutants, Cologne, GERMANY, February 2000.
- 39/ Local Host, Third Annual Meeting of the International Behavioural and Neural Genetics Society "Knockouts and Mutants III: Genetically Dissecting Brain and Behavior", Brighton, UK, June 2000.
- 40/ Member of the Organizing Committee, Sixth International Summerschool on Neurobehavioral Genetics/Sixième Ecole d'Eté Internationale en Neurogénétique Comportementale, Portland, OR, USA, August 2000.
- 41/ Member of the Program Committee, Third International Conference on Methods and Techniques in Behavioral Research "Measuring Behavior 2000", Nijmegen, THE NETHERLANDS, August 2000.
- 42/ Symposium "Behavioral phenotyping of rats and mice", Third International Conference on Methods and Techniques in Behavioral Research "Measuring Behavior 2000", Nijmegen, THE NETHERLANDS, August 2000.
- 43/ Member of the Program Committee, 8th World Congress of Psychiatric Genetics, Paris, FRANCE, August 2000.
- 44/ Member of the Local Organizing Committee, 8th World Congress of Psychiatric Genetics, Paris, FRANCE, August 2000.
- 45/ Co-chair, session "Functional Polymorphisms", 8th World Congress of Psychiatric Genetics, Paris, FRANCE, August 2000.
- 46/ Member of the Organizing Committee, Seventh International Summerschool on Neurobehavioral Genetics/Septième Ecole d'Eté Internationale en Neurogénétique Comportementale, Stockholm, SWEDEN, July 2001.
- 47/ Member of the Program Committee, Fourth Annual Meeting of the International Behavioural and Neural Genetics Society, San Diego, CA, USA, November 2001.
- 48/ Director of the Huitième Ecole d'Eté Internationale en Neurogénétique Comportementale/Eighth International Summerschool on Neurobehavioral Genetics, Worcester, MA, USA, August 2002.
- 49/ Member of the International Advisory Board, Fourth International Conference on Methods and Techniques in Behavioral Research "Measuring Behavior 2002", Amsterdam, THE NETHERLANDS, August 2002.

- 50/ Member of the International Scientific Program Committee, 10th World Congress of Psychiatric Genetics, Brussels, BELGIUM, October 2002.
- 51/ Member of the Program Committee, Fifth International Conference on Methods and Techniques in Behavioral Research "Measuring Behavior 2005", Wageningen, THE NETHERLANDS, August 2005.
- 52/ Annual Meeting of the Dutch Behavior Genetics Contact Group, Wageningen, THE NETHERLANDS, March 2007.
- 53/ Member of the Program Committee, 17th Annual Meeting of the International Behavioral Neuroscience Society (IBNS), St. Thomas, US VIRGIN ISLANDS, June 2008.
- 54/ Member of the Local Organizing Committee, 17th Annual Meeting of the International Behavioral Neuroscience Society (IBNS), St. Thomas, US VIRGIN ISLANDS, June 2008.
- 55/ Member of the Scientific Program Committee, Sixth International Conference on Methods and Techniques in Behavioral Research "Measuring Behavior 2008", Maastricht, THE NETHERLANDS, August 2008.
- 56/ Chair. Measuring behavior in a clinical context. Sixth International Conference on Methods and Techniques in Behavioral Research "Measuring Behavior 2008", Maastricht, Pays-Bas, August 2008.
- 57/ Co-Chair of the Program Committee, 18th Annual Meeting of the International Behavioral Neuroscience Society (IBNS), Nassau, BAHAMAS, June 2009.
- 58/ Co-Chair, Symposium "Editor's pick", 12 Annual Meeting "Genes, Brain and Behavior", Halifax, Nova-Scotia, CANADA, May 2010.
- 59/ Chair of the Program Committee, 19th Annual Meeting of the International Behavioral Neuroscience Society (IBNS), Cagliari, ITALY, June 2010.
- 60/ Member of the Scientific Program Committee, Seventh International Conference on Methods and Techniques in Behavioral Research "Measuring Behavior 2010", Eindhoven, THE NETHERLANDS, August 2010.

#### ***Membership of scientific societies***

- 1/ Association "Ecole Internationale et Franco-Américaine d'Eté en Neurogénétique" (1995-2003).  
-President (1995-2000)
- 2/ Behavior Genetics Association (BGA), 1982-1996, 2005-2009  
-Member of the Membership Committee (1988-1991)  
-Member of the Public and Professional Affairs Committee (1992-1995)  
-Member of the Jury for the Thompson Award (1993)  
-Member of the Executive Committee (1993-1995)
- 3/ Boston Area Neuroscience Group (BANG), 2001-2005
- 4/ European Brain and Behaviour Society (EBBS), since 1990  
-Member of the Executive Committee (1996-1999)  
-Member of the Programme Committee (1996-1998)
- 5/ European Neuroscience Association (ENA), 1987-1998
- 6/ Federation of European Neuroscience Societies (FENS)  
-Founding Member of the Council (representing IBANGS, 1998-2000)  
-Member of the Ethics Committee (1999-2000)
- 7/ International Behavioral Neuroscience Society (IBNS), since 1995  
-Member of the Membership Committee (1996-2000, Co-Chair 1998-1999, Chair 1999-2000)  
-Member of the Council (Executive Committee; 1999-2002)  
-Member of the Nominations Committee (2000-2003, 2007)  
-Member of the Personnel Committee (2003-2008; Co-Chair since 2007)  
-Member of the Fellows and Honorific Awards Committee (2003-2008)

- elected Fellow (2001)
- candidate for President (2002, 2003, 2010; 2001, 2004, and 2008 nomination not accepted)
- Member of the Program Committee (2008-2010, Co-Chair 2009, Chair 2010, 2011)
- Mentor, Education and Training Committee (2007-2008)
- Member of the Local Organizing Committee (2008)
- 8/ International Behavioural and Neural Genetics Society (IBANGS; 1996-1997: European Behavioural and Neural Genetics Society), Founder (with Hans-Peter Lipp, Zurich, Switzerland), since 1996
  - Member-at-large of the Founding Executive Committee (1996-1997)
  - Treasurer (1997-1998)
  - Member of the Programme Committee (1997, 2001)
  - Webmaster (1997-2005)
  - Local Host (1997, 1999, 2000)
  - President-elect (1998-1999)
  - Member of the Publications Committee (1999-2001)
  - President (1999-2000)
  - Past-President (2000-2001)
- 9/ International Brain Research Organization (IBRO), since 1990
- 10/ International Society of Psychiatric Genetics (ISPG), since 1993
  - Member of the Membership Committee (since 1994)
  - Member of the International Scientific Programme Committee (1999-2000, 2001-2002)
- 11/ Nederlandse Contactgroep voor Gedragsgenetica (Dutch Behavior Genetics Contact Group), since 1979
  - President (1987-1997, 2007)
- 12/ Neurowissenschaftliche Gesellschaft (German Neuroscience Society), Founding Member (1991-1998)
- 13/ Société des Neurosciences (French Neuroscience Society), 1992-1999
  - Member of the Club Mémoire et Apprentissage, 1993-1999
- 14/ Society for Heredity, Nervous System and Behavior, (1994-2003)
  - Member-at-large of the Executive Committee (1994-2003)
  - Executive Director (1996-1998)
- 15/ Society for Neuroscience (SfN), since 2001

#### **Editorships/Editorial Board Memberships**

- 1/ *Behavioral and Brain Functions* (Member of the Editorial Board: since 2004)
- 2/ *The Behavioral and Brain Sciences* (Associate Editor for Neurobehavioral Genetics: 1991-2008; Member of the Editorial Board: since 2009)
- 3/ *Behavior Genetics* (Member of the Editorial Board: 1991-1995)
- 4/ *Behavioural Brain Research* (Member of the Editorial Board: 1997-2007)
- 5/ *BMC Neuroscience* (Member of the Editorial Board: since 2001)
- 6/ *BMC Research Notes* (Member of the Editorial Board: since 2007)
- 7/ *Frontiers in Behavioral Neuroscience* (Reviewing Editor: since 2007)
- 8/ *Genes, Brain and Behavior* (Editor-in-Chief: since 2001)
- 9/ *Journal of Neuroscience and Behavioral Health* (since 2009)
- 10/ *Journal of Visualized Experiments* (Member of the Editorial Board, since 2007)
- 11/ *Neural Regeneration Research* (Member of the Editorial Board, since 2007)
- 12/ *Neurogenetics* (Member of the Editorial Board: 1998-2006)
- 13/ *Open Behavioral Science Journal* (Member of the Editorial Board, since 2007)
- 14/ *Open Neuroscience Journal* (Member of the Editorial Board: since 2007)
- 15/ *Physiology and Behavior* (Member of the Editorial Board: since 1997)

- 16/ *PLoS ONE* (Academic Editor: since 2006)
- 17/ *Psychology* (Associate Editor for Behavioral Neurogenetics: since 1991)
- 18/ *TheScientificWorldJOURNAL* (Member of the Editorial Boards of the domains *Neuroscience* and *Higher Level Brain Function* and Associate Editor of the domain *Genes and Genomics*: since 2002; Associate Editor of the domain *Neuroscience*: since 2006)

**Referee**

- 1/ *African Journal of Pharmacy and Pharmacology*
- 2/ *Alcoholism: Clinical and Experimental Research*
- 3/ *American Journal of Medical Genetics: Neuropsychiatric Genetics*
- 4/ *American Journal of Psychiatry*
- 5/ *Autism Research*
- 6/ *The Behavioral and Brain Sciences*
- 7/ *Behavior Genetics*
- 8/ *Behavioral Neuroscience*
- 9/ *Behavior Research Methods*
- 10/ *Behaviour*
- 11/ *Behavioural Brain Research*
- 12/ *Behavioural Processes*
- 13/ *Brain, Behavior, and Immunity*
- 14/ *Brain Research*
- 15/ *Brain Research Protocols*
- 16/ *Cahiers de Psychologie Cognitive/Current Psychology of Cognition*
- 17/ *Cognitive Brain Research*
- 18/ *Current Eye Research*
- 19/ *Developmental Brain Research*
- 20/ *Developmental Neuropsychology*
- 21/ *Developmental Psychobiology*
- 22/ *Educational Research*
- 23/ *European Journal of Neuroscience*
- 24/ *Experimental Brain Research*
- 25/ *Genes and Immunity*
- 26/ *Genome Research*
- 27/ *Hippocampus*
- 28/ *Human Genetics*
- 29/ *Human Molecular Genetics*
- 30/ *International Journal of Comparative Psychology*
- 31/ *International Journal of Medicine and Medical Sciences*
- 32/ *International Journal of Neuropsychopharmacology*
- 33/ *Journal of Applied Physiology*
- 34/ *Journal of Clinical Medicine and Research*
- 35/ *Journal of Comparative Psychology*
- 36/ *Journal of Medical Laboratory and Diagnosis*
- 37/ *Journal of Neuroscience*
- 38/ *Journal of Neuroscience Research*
- 39/ *Journal of Oceanography and Marine Science*
- 40/ *Learning and Memory*
- 41/ *Life Sciences*
- 42/ *Molecular Brain Research*
- 43/ *Molecular Psychiatry*
- 44/ *Nature Methods*
- 45/ *Neurobiology of Aging*

- 46/ *Neurobiology of Disease*
- 47/ *Neurogenetics*
- 48/ *Neuroscience*
- 49/ *Neuroscience & Biobehavioral Reviews*
- 50/ *Neuroscience Letters*
- 51/ *Open Behavioral Science Journal*
- 52/ *Pharmacological Reports*
- 53/ *Pharmacology, Biochemistry and Behavior*
- 54/ *Physiological Genomics*
- 55/ *Physiology and Behavior*
- 56/ *PLoS Biology*
- 57/ *Progress in Neuro-Psychopharmacology and Biological Psychiatry*
- 58/ *Psychiatry Research*
- 59/ *Psychobiology*
- 60/ *Psychological Review*
- 61/ *Psychology*
- 62/ *Psychopharmacology*
- 63/ *Reviews in the Neurosciences*
- 64/ *Schizophrenia Research*
- 65/ *The Pharmacogenomics Journal*
- 66/ *TheScientificWorldJOURNAL*
- 67/ *Trends in Genetics*
- 68/ *Trends in Neurosciences*

**Scientific advisorships/ad hoc reviewer**

- 1/ Association Française contre les Myopathies, Paris, FRANCE (2007, 2009)
- 2/ Alzheimer's Association, Chicago, Illinois, USA (1997, 2004, 2005, 2006, 2007, 2009).
- 3/ Biotechnology and Biological Sciences Research Council, Swindon, UK (2005, 2006).
- 4/ Canadian Institutes of Health Research, Ottawa, CANADA (2002).
- 5/ Gordon and Breach/Harwood Academic Publishers, Langhorne, PA, USA (evaluation of *Journal of Neurogenetics*, 1998).
- 6/ Guggenheim Foundation, New York, NY, USA (2005).
- 7/ Honor Thesis Committee, Confederal Institute of Technology, Zurich, SWITZERLAND (D. Genoux, 2003)
- 8/ Jury d'Admissibilité du Concours de Chargé de Recherche CR2-6, Institut National de la Recherche Agronomique (INRA), Paris, FRANCE (2007).
- 9/ International Bioethics Committee, UNESCO, Paris, FRANCE, (1997).
- 10/ International Conference of Non-Governmental Organizations, UNESCO, Paris, FRANCE (1998).
- 11/ Institut de la Longévité, Paris, FRANCE (2003).
- 12/ Israel Science Foundation, Jerusalem, ISRAEL (2005).
- 13/ Kultusministerium (Ministry of Culture and Research) des Landes Sachsen-Anhalt, Magdeburg, GERMANY (1999).
- 14/ National Institute of Child Health and Development, Bethesda, MD, USA (2002, 2004, 2005)
- 15/ National Institutes of Health Study Sections, Center for Scientific Review, Bethesda, MD, USA: Biobehavioral Regulation, Learning and Ethology (2003, 2005, 2007, 2009), Mammalian Genetics (2003), Behavioral Neuroscience Fellowships (2004, 2005), Genetics of Health and Disease (2008), Challenge Grants Integrated Review Group (2009).

- 16/ Natural Sciences and Engineering Research Council of Canada, Ottawa, CANADA (2003, 2006, 2008).
- 17/ Nederlandse Organisatie voor Wetenschappelijk Onderzoek (Dutch Organisation for Scientific Research-Council for Earth and Life Sciences), The Hague, THE NETHERLANDS (2006).
- 18/ Nederlandse Organisatie voor Wetenschappelijk Onderzoek (Dutch Organisation for Scientific Research-Council for Medical and Health Research), The Hague, THE NETHERLANDS (1999).
- 19/ PRMRP Autism panel, American Institute of Biological Sciences, Reston, VA, USA (on behalf of the US Army Medical Research and Materiel Command; 2005, 2007).
- 20/ Research Council, University of Leuven, BELGIUM (1999).
- 21/ Search Committees: Massachusetts Institute of Technology, Cambridge, MA, USA (2000); Flanders Interuniversity Institute for Biotechnology, BELGIUM (2003); Katholieke Universiteit Leuven, BELGIUM (2005).
- 22/ Swiss National Fund for Scientific Research, Bern, SWITZERLAND (1993).
- 23/ Telethon Foundation, Milan, ITALY (2003, 2004).
- 24/ Tenure and Promotion Committees: University of Dalhousie, Dalhousie, CANADA (1995); Stanford University School of Medicine, Stanford, CA, USA (1999); University of Toronto, Mississauga, CANADA (2004, 2008); United Arab Emirates University, Al-Ain, UNITED ARAB EMIRATES (2004); Wadsworth Center, State of New York Department of Health, Albany, NY, USA (2005, 2006, 2008); University of British Columbia, Vancouver, BC, CANADA (2007); Rutgers University, Piscataway, NJ, USA (2007); University of Tennessee, Memphis, TN, USA (2008); Hebrew University, Jerusalem, Israel (2009).
- 25/ Thesis Committees: University of Amsterdam, Amsterdam, THE NETHERLANDS (PhD, C. DOLAN, 1992); Université François Rabelais, Tours, FRANCE (Habilitation, C. BELZUNG, 1997); Université de Rennes, Rennes, FRANCE (PhD, S. RICHARD, 2000); Université Pierre et Marie Curie (Paris VI), Paris, FRANCE (PhD, E. LEPICARD, 2001); Otto-von-Guericke University, Magdeburg, GERMANY (Habilitation, D. BALSCHUN, 2002); Université d'Orléans, Orléans, FRANCE (Habilitation, B. MARTIN, 2002); Université François Rabelais, Tours, FRANCE (PhD, L. PRUT, 2003); Confederal Institute of Technology, Zurich, SWITZERLAND (PhD, D. GENOUX, 2003); University of British Columbia, Vancouver, CANADA (PhD, B. ABRAHAMS, 2004); University of Connecticut, Storrs, CT, USA (PhD, A. CANASTAR, 2005); Radboud Universiteit, Nijmegen, THE NETHERLANDS (PhD, U. SCHRIDDE, 2005); Université Rene Descartes (Paris V), Paris, FRANCE (Habilitation, S. GRANON, 2005); Université de Bordeaux I, Talence, FRANCE (Habilitation, Y. CHO, 2007); Université Pierre et Marie Curie (Paris VI), Paris, FRANCE (PhD, G.H. PETIT, 2007); Université de Bordeaux I, Talence, FRANCE (PhD, S. DELCASSO, 2007); Free University, Amsterdam, THE NETHERLANDS (PhD, M.F. GOSSO, 2008); Université de Paris XI (Habilitation, S. DAVIS, 2008); Université d'Orléans (PhD, G. CALAS, 2008); Karolinska Institutet, Stockholm, SWEDEN (PhD, R.-M. KARLSSON, 2009); University of Utrecht, Utrecht, THE NETHERLANDS (PhD, M. LAARAKKER, 2009); Confederal Institute of Technology, Zurich, SWITZERLAND (PhD, T. Franklin, 2009).
- 26/ Wellcome Trust, London, UK (1998, 2001, 2008).

**Research grants**

- 1/ 1984-1985: Postdoctoral Fellowship. Quantitative-genetic analyses of learning performance, exploratory behavior, and number of hippocampal mossy fibers. NATO Science Fellowship, Dutch Organization for Pure Scientific Research (Z.W.O.), Den Haag, THE NETHERLANDS.
- 2/ 1985-1987: Postdoctoral Fellowship. Quantitativ-genetische Analysen vom Neugierverhalten, Shuttle-Box-Lernen und Anzahl der hippocampalen Moosgefäße in der Hausmaus (quantitative-genetic analysis of exploratory behavior, shuttle-box learning, and number of hippocampal mossy fibers in the hippocampus). Fondation ALEXANDER VON HUMBOLDT, Bonn, GERMANY.
- 3/ 1987: Neurotransmitter Glutamat und Schwachsinn unbekannter Genese: Familienstudie (Neurotransmitter glutamate and mental deficiency with unknown causes: Family study). Deutsche Forschungsgemeinschaft (D.F.G.), Bonn, GERMANY. (PI: F. VOGEL). Renewed: until December 1989.
- 4/ 1988: Postdoctoral Fellowship. A correlational analysis of spatial and non-spatial learning and structural variation of the hippocampus in the mouse. Fondation FYSSEN, Paris, FRANCE.
- 5/ 1989: Vieillissement normal et accéléré: Analyse génétique (Normal and accelerated aging: Genetic analysis). Contrat de Recherche Externe INSERM, Paris, FRANCE (Co-PI with C. COHEN-SALMON and P.-M. SINET, Paris, FRANCE).
- 6/ 1992-1994: Etudes des effets neuroanatomiques et comportementaux d'une alcoolisation prénatale chez trois lignées de souris consanguines (Neuroanatomical and behavioral effects of prenatal alcohol exposure in three inbred strains of mice). Institut de Recherches Scientifiques sur les Boissons (IREB), Paris, FRANCE (PI). Competing renewals: 1993, 1994.
- 7/ 1995-1997: Etudes des effets neuroanatomiques et comportementaux d'une alcoolisation chronique chez trois lignées de souris consanguines (Neuroanatomical and behavioral effects of chronic alcohol consumption in three inbred strains of mice). Institut de Recherches Scientifiques sur les Boissons (IREB), Paris, FRANCE (PI). Competing renewal: 1997.
- 8/ 1999-2002: Genetics and absence epilepsy: gene-environment interaction and gene characterisation. Nederlandse Organisatie voor Wetenschappelijk Onderzoek-Medische Wetenschappen (Dutch Organisation for Scientific Research-Council for Medical and Health Research), The Hague, THE NETHERLANDS (Consultant; PI: E.L.J.M. van LUIJTELAAR, Nijmegen, THE NETHERLANDS).
- 9/ 2000-2004: Validation of single and multiple transgenic mice models for Alzheimer's disease. 5th PCRDT, European Union, Brussels, BELGIUM (Co-PI; F. VAN LEUVEN, Leuven, BELGIUM, Coordinator; Co-PIs: J. MALLET, Paris, FRANCE; L. KACZMAREK, Warsaw, POLAND; H. KRETSCHMAR and C. HAASS, Munich, GERMANY; after moving to the US, my role as Co-PI was taken over by B. MARTIN, Orleans, FRANCE, but I remained involved as a consultant).
- 10/ 2001-2003: Evaluation of the behavioral effects of secretin, Repligen Corp., Waltham, MA, USA.
- 11/ 2002-2004: Hippocampal neurogenesis and Accutane induced depression. 1 R21 MH066037-01, National Institute of Mental Health, Bethesda, MD, USA (Co-Investigator, PI: Peter McCaffery).
- 12/ 2003-2006: IBANGS Annual Meeting support. 1 R13 AA014431-01, National Institute on Alcohol Abuse and Alcoholism (with additional support from NIMH, NICHD, NIA, and NIDA), Bethesda, MD, USA (Co-Investigator, PI: John C. Crabbe).

- 13/ 2005-2007: Treating depression with histone deacetylase inhibitors. 1 R01 MH074114-01. National Institute of Mental Health, Bethesda, MD, USA (Consultant, PI: Schahram Akbarian).
- 14/ 2005-2008: Autistic-like behaviors in *Fmr1* knockout mice. 12-FY05-1198, March of Dimes, White Plains, NY, USA (PI).
- 15/ 2005-2006: Study of autistic traits in a mouse model of the Fragile X Syndrome. Equipment grant. 20051301006AB, Conseil Régional d'Aquitaine/Centre National de la Recherche Scientifique/Université de Bordeaux I, Bordeaux, FRANCE (PI).
- 16/ 2005-2008: Study of autistic traits in a mouse model of the Fragile X Syndrome. Graduate student stipend. Conseil Régional d'Aquitaine, Bordeaux, FRANCE (PI).
- 17/ 2005-2010: Genetic regulation of hippocampal anatomy and learning. 1 R01 MH072920-01, National Institute of Mental Health, Bethesda, MD, USA (PI).
- 18/ 2007-2012: IBANGS Annual Meeting Support. 2 R13 AA014431-04, National Institute on Alcohol Abuse and Alcoholism (with additional support from NIMH and NICHD), National Institutes of Health, MD, USA (Co-Investigator, PI: John Crabbe, Portland, OR, USA).
- 19/ 2009-2012: Neuroprotective effects of brain glycogen in hypoglycemia. 1R15DK078370-01A2, National Institute of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, MD, USA (Consultant, PI: Bartholomew Pederson).
- 20/ 2010-2011: Ultrasonic communication in a mouse model of Fragile X Syndrome and autism. CNRS/CNR-23779, Centre Nationale de la Recherche Scientifique/Consiglio Nazionale delle Ricerche, Paris, FRANCE, and Rome, ITALY (PI).