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Birth: 1968 - France

Work address

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Present position

2009- Researcher, Launey Research Unit, RIKEN – BSI, Japan

University Degrees

1996 Ph. D. in Neurosciences, University of Paris XI, Orsay, France
1990 Master degree in Animal Physiology, University of Paris XI, Orsay, France

Professional experience

2007-2009: Researcher at the Okinawa Institute of Science and Technology, Unit for Molecular Neurobiology of Learning & Memory (Dr. S. Endo) *Electrophysiological study of learning and memory in ICER-deficient and ICER-overexpressing mice*

2003-2006: Postdoctoral fellow at the University of Basel, Department of Physiology (Prof. B. Bettler) *Electrophysiological study of GABA(B) receptors*

1997-2002: Japan Society for the Promotion of Science postdoctoral fellow (2 years) and postdoctoral fellow (3 years) at the National Institute for Basic Biology, Division of Speciation Mechanisms I (Prof. T. Yamamori), Okazaki, Japan. *In vivo and in vitro studies of the cerebellar long-term depression.*

1994-1995 : Assistant in neurosurgery, Hôpital Necker-Enfants Malades (Prof. A.-P. Kahn), Paris, France.

1991-1996 : Diploma and Thesis at the Laboratoire de Physiologie de la Motricité – CNRS (Dr C. Batini), University Pierre et Marie Curie, Paris VI, CHU Pitié-Salpêtrière, Paris, France. *GABA_(A) and GABA_(B) receptors in intact and chronically deafferented cerebellum: pharmacological and electrophysiological study.*

Publications

- Casanova E., Guetg N., **Vigot R.**, Seddik R., Julio-Pieper M., Hyland N.P., Cryan J.F., Gassmann M. and Bettler B. A Mouse Model for Visualization of GABA_B Receptors. *Genesis*, 2009, 00, 1-8.
- Guetg N.*, Seddik R.*, **Vigot R.**, Turecek R., Gassmann M., Vogt K.E., Bräuner-Osborne H., Shigemoto R., Kretz O., Frotscher M., Kulik A. and Bettler B. The GABA_{B1a} Isoform Mediates Heterosynaptic Depression at Hippocampal Mossy Fiber Synapses. *The Journal of Neuroscience*, 2009, 106(11): 4459-64.
- **Vigot R.***, Barbieri S.*, Bräuner-Osborne H.*, Turecek R., Shigemoto R., Zhang Y.-P., Luján R., Jacobson L.H., Biermann B., Fritschy J.-M., Vacher C.-M., Müller M., Sansig G., Cryan J.F., Kaupmann K., Gassmann M., Oertner T. G., Bettler B. Differential

- compartmentalization and distinct functions of GABA_B receptor variants. *Neuron*, 2006, 50(4): 589-601.
- Haller C., Casanova E., Muller M., Vacher C.-M., **Vigot R.**, Doll T., Barbieri S., Gassmann M. and Bettler B. Floxed allele for conditional inactivation of the GABA_{B(1)} gene. *Genesis*, 2004, 40(3):125-30.
 - Gassmann M.*, Shaban H.*, **Vigot R.***, Sansig G., Haller C., Barbieri S., Humeau Y., Schuler V., Müller M., Kinzel B., Klebs K., Schmutz M., Froestl W., Heid J., Kelly P.H., Gentry C., Jatón A-L., Van der Putten H., Mombereau C., Lecourtier L., Mosbacher J., Cryan J.F., Fritschy J-M., Lüthi A., Kaupmann K. and Bettler B. Redistribution of GABA_{B(1)} protein and atypical GABA_B responses in GABA_{B(2)}-deficient mice. *The Journal of Neuroscience*, 2004, 24(27):6086-97
- *: These authors contributed equally to this study.**
- **Vigot R.**, Kado R.T. and Batini C. Increased Calbindin-D28k immunoreactivity in rat cerebellar Purkinje cell with excitatory amino acids agonists is not dependent on protein synthesis. *Archives Italiennes de Biologie*, 2004, 142(1):69-75.
 - **Vigot R.** Cerebellar long-term depression: a mechanism for learning and memory. *Médecine/Sciences*, 2003, 19, 437-441.
 - **Vigot R.**, Batini C., Kado R.T. and Yamamori T. Synaptic LTD *in vivo* recorded on the rat cerebellar cortex. *Archives Italiennes de Biologie*, 2002, 140, 1-12.
 - Karachot L., Shirai Y., **Vigot R.**, Yamamori T. and Ito M. Induction of long-term depression in cerebellar Purkinje cells requires a rapidly turned over protein. *Journal of Neurophysiology*, 2001, 86(1), 280-289.
 - Karachot L., Shirai Y., **Vigot R.**, Yamamori T. and Ito M. Rapidly turned over protein maintains metabotropic synaptic transmission in Purkinje cells. *NeuroReport*, 2000, 11(13), 2903-2906.
 - **Vigot R.** and Batini C. Purkinje cell inhibitory responses to 3-APPA (3-aminopropylphosphonic acid) in rat cerebellar slices. *Neuroscience Research*, 1999, 34(3), 141-147.
 - **Vigot R.** and Batini C. GABA_B receptor activation of Purkinje cells in cerebellar slices. *Neuroscience Research*, 1997, 29, 151-160.
 - Batini C., Guegan M., Palestini M., Thomasset M. and **Vigot R.** Upregulation of calbindin-D-28k immunoreactivity by excitatory amino acids. *Archives Italiennes de Biologie*, 1997, 135, 385-397.
 - **Vigot R.** GABA_A and GABA_B receptors in intact and chronically deafferented cerebellum: pharmacological and electrophysiological study. Thesis, 1996, University Paris XI, Orsay, France, pp 158.
 - **Vigot R.**, Billard J.M. and Batini C. Reduction of GABA inhibition in Purkinje and cerebellar nuclei neurons in climbing fibre deafferented cerebella of rat. *Neuroscience Research*, 1993, 17, 249-255.
 - Batini C., Palestini M., Thomasset M. and **Vigot R.** Cytoplasmatic calcium buffer, Calbindin-D28K, is regulated by excitatory amino acids. *NeuroReport*, 1993, 4, 927-930.
 - Billard J.M., **Vigot R.** and Batini C. GABA, THIP and Baclofen inhibition of Purkinje cells and cerebellar nuclei neurones. *Neuroscience Research*, 1993, 16, 65-69.