

Jean-Philippe Guilloux

UMRS1178 / CESP – Equipe 3 : Dépression, Plasticité &
Résistance aux antidépresseurs
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**Maitre de Conférences Universitaire
Enseignant-Chercheur**

Expériences Professionnelles

Maitre de Conférences Universitaire

Depuis Mars 2008

UMRS1178 / CESP Laboratoire de Neuropharmacologie, Université Paris Saclay
Sujets de recherche : Caractérisation moléculaire et comportementale des modèles animaux d'anxiété et
dépression.

Visiting Scientist

2008-2011

Sibille Lab, Department of Psychiatry, University of Pittsburgh, USA
Sujets de recherche : Approches translationnelles de la dépression majeure
Effets de l'âge sur l'expression des gènes dans le contexte de la dépression majeure

Post-Doctorant

Juin 2006/Mars 2008

Laboratoire de Neurobiologie, INSERM U573, Paris, France.
Sujets de recherche : Effets prokinétiques de la nicotine dans un modèle de rat hémiparkinsonnien, le modèle 6-
OHDA.

Doctorant

Septembre 2002/Juin 2006

EA3544 Laboratoire de Neuropharmacologie, Université Paris Sud
Sujet de recherche : Intérêts du (±)-pindolol en co-administration avec des antidépresseurs: rôle des récepteurs 5-
HT1A et 5-HT1B par des approches pharmacologique et génétiques.

Diplômes

Doctorat ès Neuropharmacologie

Juin 2006

Université Paris Sud
Intérêts du (±)-pindolol en co-administration avec des antidépresseurs: rôle des récepteurs 5-HT1A et 5-HT1B par
des approches pharmacologique et génétiques.

Master Pharmacologie Expérimentale et Clinique

Juin 2002

Université Paris Sud

Récompenses

Prix Régnier de Pharmacologie (3,000€)

Juin 2007

Université Paris Sud

Financements & Grants

Bonus Qualité Recherche (30,000€)

Janvier 2011

Stratégies d'études de la dépression pharmaco-résistante
Université Paris Sud

Collaborateur Projet ANR Samenta « DEP-ARREST » (165,000€)

Mai 2012

Mise en évidence de marqueurs centraux et périphériques de la dépression résistante
Université Paris-Sud, Institut Pasteur



Compétences Techniques

In and ex-vivo:

- Chirurgie Stéréotaxique, Microchirurgie d'aires cérébrales chez le Rongeur. Microdialyse.
- Analyse comportementale dans des tests d'anxiété et de dépression (Forced Swimming Test, Open Field, Actimetry, Elevated Plus Maze, Novelty Suppressed Feeding), ou de Parkinson (Limb Use Test, Stepping Test, Vibrissae Test).

In vitro:

- Western Blot
- Biologie Moléculaire (Microarray & qPCR)

Enseignement

Université Paris Saclay

≈200h/an

Enseignements de pharmacologie, neuropharmacologie, biologie cellulaire (Niveau licence et Master)

Publications

1. Tritschler, L., M. A. Kheirbek, Y. L. Dantec, I. Mendez-David, J. P. Guilloux, C. Faye, J. Doan, T. H. Pham, R. Hen, D. J. David and A. M. Gardier (2017). "Optogenetic activation of granule cells in the dorsal dentate gyrus enhances dopaminergic neurotransmission in the Nucleus Accumbens." *Neurosci Res*.
2. Guilloux, J. P., A. M. Gardier and D. J. David (2017). "New targets and modalities of antidepressant drugs development." *La lettre du Pharmacologue* 31(1): 12-18.
3. Mendez-David, I., C. Boursier, V. Domergue, R. Colle, B. Falissard, E. Corruble, A. M. Gardier, **J. P. Guilloux** and D. J. David (2017). "Differential Peripheral Proteomic Biosignature of Fluoxetine Response in a Mouse Model of Anxiety/Depression." *Front Cell Neurosci* 11: 237.
4. Mendez-David, I., **J. P. Guilloux**, M. Papp, L. Tritschler, E. Mocaer, A. M. Gardier, S. Bretin and D. J. David (2017). "S 47445 Produces Antidepressant- and Anxiolytic-Like Effects through Neurogenesis Dependent and Independent Mechanisms." *Front Pharmacol* 8: 462.
5. Mekiri, M., A. M. Gardier, D. J. David and **J. P. Guilloux** (2017). "Chronic corticosterone administration effects on behavioral emotionality in female c57bl6 mice." *Exp Clin Psychopharmacol* 25(2): 94-104.
6. **Guilloux, J. P.**, B. A. Samuels, I. Mendez-David, A. Hu, M. Levinstein, C. Faye, M. Mekiri, E. Mocaer, A. M. Gardier, R. Hen, A. Sors and D. J. David (2017). "S 38093, a histamine H3 antagonist/inverse agonist, promotes hippocampal neurogenesis and improves context discrimination task in aged mice." *Sci Rep* 7: 42946.
7. Besson, M., S. Guiducci, S. Granon, **J. P. Guilloux**, B. Guiard, C. Reperant, P. Faure, S. Pons, G. Cannazza, M. Zoli, A. M. Gardier and U. Maskos (2016). "Alterations in alpha5* nicotinic acetylcholine receptors result in midbrain- and hippocampus-dependent behavioural and neural impairments." *Psychopharmacology (Berl)* 233(18): 3297-3314.
8. Costemale-Lacoste, J. F., **J. P. Guilloux** and R. Gaillard (2016). "The role of GSK-3 in treatment-resistant depression and links with the pharmacological effects of lithium and ketamine: A review of the literature." *Encephale* 42(2): 156-164.
9. Darcet, F., A. M. Gardier, R. Gaillard, D. J. David and **J. P. Guilloux** (2016). "Cognitive Dysfunction in Major Depressive Disorder. A Translational Review in Animal Models of the Disease." *Pharmaceuticals (Basel)* Feb 17;9(1).
10. David D. J., L. Tritschler, **J. P. Guilloux**, A. M. Gardier, C. Sanchez, R. Gaillard (2016). "Pharmacological properties of vortioxetine and its pre-clinical consequences." *Encéphale*. 42: 1S12
11. Costemale-Lacoste, J. F., **J. P. Guilloux** and R. Gaillard (2016). "The role of GSK-3 in treatment-resistant depression and links with the pharmacological effects of lithium and ketamine: a review of the literature." *Encephale*



Apr;42(2):156-64.

12. Darcet, F., A. M. Gardier, D. J. David and **J. P. Guilloux** (2016). "Chronic 5-HT receptor agonist treatment restores learning and memory deficits in a neuroendocrine mouse model of anxiety/depression." *Neurosci Lett* 616: 197-203.
13. Siopi, E., M. Denizet, M. M. Gabellec, F. de Chaumont, J. C. Olivo-Marin, **J. P. Guilloux**, P. M. Lledo and F. Lazarini (2016). "Anxiety- and Depression-Like States Lead to Pronounced Olfactory Deficits and Impaired Adult Neurogenesis in Mice." *J Neurosci* 36(2): 518-531.
14. Quesseveur, G., A. C. Petit, H. T. Nguyen, L. Dahan, R. Colle, S. Rotenberg, I. Seif, P. Robert, D. David, **J. P. Guilloux**, A. M. Gardier, C. Verstuyft, L. Becquemont, E. Corruble and B. P. Guiard (2016). "Genetic dysfunction of serotonin 2A receptor hampers response to antidepressant drugs: A translational approach." *Neuropharmacology* 105: 142-153.
15. Colle, R., F. Gressier, C. Verstuyft, E. Deflesselle, J. P. Lepine, F. Ferreri, P. Hardy, **J. P. Guilloux**, A. C. Petit, B. Feve, B. Falissard, L. Becquemont and E. Corruble (2015). "Brain-derived neurotrophic factor Val66Met polymorphism and 6-month antidepressant remission in depressed Caucasian patients." *J Affect Disord* 175C: 233-240.
16. **Guilloux, J.P.**, Bassi I., Ding Y., Walsh C., Turecki G., Tseng G., Cyranowski J.M., Sibille E. (2014). Peripheral gene expression predicts non-remission following citalopram treatment for major depression. *Neuropsychopharmacology* 40(3): 701-710.
17. Ding, Y., L.-C. Chang, W. Wang, **J.-P. Guilloux**, J. Parrish, H. Oh, B. J. French, D. A. Lewis, G. C. Tseng and E. Sibille (2015). "Molecular and Genetic Characterization of Depression: Overlap with Other Psychiatric Disorders and Aging." *Molecular Neuropsychiatry* 1(1): 1-12.
18. Darcet F., Mendez-David I., Tritschler L., Gardier A.M., **Guilloux J.P.***, David D.J.* (2014). Learning and memory impairments in a neuroendocrine mouse model of anxiety/depression. *Frontiers in Neuroscience*. 8: 136. (* Last co-authorship).
19. Tritschler, L., D. Felice, R. Colle, **J. P. Guilloux**, E. Corruble, A. M. Gardier and D. J. David (2014). "Vortioxetine for the treatment of major depressive disorder." *Expert Rev Clin Pharmacol*: 1-15.
20. Le Dantec, Y., G. Hache, **J. P. Guilloux**, B. P. Guiard, D. J. David, J. Adrien and P. Escourrou (2014). "NREM sleep hypersomnia and reduced sleep/wake continuity in a neuroendocrine mouse model of anxiety/depression based on chronic corticosterone administration." *Neuroscience* 274: 357-368.
21. **Guilloux, J.P.**, Mendez-David, I., Pehrson, A., Guiard, B.P., Reperant, C., Orvoen, S., Gardier, A.M., Hen, R., Ebert, B., Miller, S., Sanchez, C., and David, D.J. (2013). Antidepressant and anxiolytic potential of the multimodal antidepressant vortioxetine (Lu AA21004) assessed by behavioural and neurogenesis outcomes in mice. *Neuropharmacology* 73C, 147-159.
22. Douillard-Guilloux G., J.P. **Guilloux**, D.A. Lewis, E. Sibille (2013). "Anticipated Brain Molecular Aging in Major Depression". *American Journal of Geriatric Psychiatry* 21(5):450-60.
23. Tripp A, H. Oh, J.P. **Guilloux**, K. Martinowich, D.A. Lewis, E. Sibille (2012). "Brain-Derived Neurotrophic Factor Signaling and Subgenual Anterior Cingulate Cortex Dysfunction in Major Depressive Disorder." *The American journal of psychiatry* 169(11):1194-202.
24. Xia, L., C. Deloménie, I. David, Q. Rainer, M. Marouard, H. Delacroix, D. David, A. Gardier, J.P. **Guilloux** (2012). "Ventral hippocampal molecular pathways and impaired neurogenesis associated with 5-HT1A and 5-HT1B receptors disruption in mice." *Neurosciences Letters* 521(1): 20-5
25. **Guilloux, J. P.**, G. Douillard-Guilloux, R.S. Kota, X. Wang, A.M. Gardier, K. Martinowich, G.C. Tseng, D.A. Lewis, E. Sibille. (2012) "Molecular evidence for BDNF- and GABA-related dysfunctions in the amygdala of female



subjects with Major Depression." *Molecular Psychiatry* 17(11): 1130-1142.

26. Besson, M., V. David, M. Baudonnat, P. Cazala, J. P. **Guilloux**, C. Reperant, I. Cloez-Tayarani, J. P. Changeux, A. M. Gardier and S. Granon (2011). "Alpha7-nicotinic receptors modulate nicotine-induced reinforcement and extracellular dopamine outflow in the mesolimbic system in mice." *Psychopharmacology* 220(1): 1-14
27. Rainer, Q., L. Xia, J. P. **Guilloux**, C. Gabriel, E. Mocaer, R. Hen, E. Enhamre, A. M. Gardier and D. J. David (2011). "Beneficial behavioural and neurogenic effects of agomelatine in a model of depression/anxiety." *Int J Neuropsychopharmacol*: 1-15.
28. **Guilloux**, J. P., M. Seney, N. Edgar and E. Sibille (2011). "Integrated behavioral z-scoring increases the sensitivity and reliability of behavioral phenotyping in mice: Relevance to emotionality and sex." *J Neurosci Methods* 197(1): 21-31.
29. **Guilloux**, J. P., D. J. David, L. Xia, H. T. Nguyen, Q. Rainer, B. P. Guiard, C. Reperant, T. Deltheil, M. Toth, R. Hen and A. M. Gardier (2011). "Characterization of 5-HT(1A/1B)-/- mice: An animal model sensitive to anxiolytic treatments." *Neuropharmacology* 61(3) : 478-88
30. Popa, D., J. Cerdan, C. Reperant, B. P. Guiard, J. P. **Guilloux**, D. J. David and A. M. Gardier (2010). "A longitudinal study of 5-HT outflow during chronic fluoxetine treatment using a new technique of chronic microdialysis in a highly emotional mouse strain." *Eur J Pharmacol* 628(1-3): 83-90.
31. **Guilloux**, J. P., C. Gaiteri and E. Sibille (2010). "Network analysis of positional candidate genes of schizophrenia highlights...more than... myelin-related pathways." *Mol Psychiatry* 15(8): 786-788.
32. Gaiteri, C., J. P. **Guilloux**, D. A. Lewis and E. Sibille (2010). "Altered gene synchrony suggests a combined hormone-mediated dysregulated state in major depression." *PLoS One* 5(4): e9970.
33. Cazorla, M., A. Jouvenceau, C. Rose, J. P. **Guilloux**, C. Pilon, A. Dranovsky and J. Premont (2010). "Cyclotraxin-B, the first highly potent and selective TrkB inhibitor, has anxiolytic properties in mice." *PLoS One* 5(3): e9777.
34. Massart, R., J. P. **Guilloux**, V. Mignon, P. Sokoloff and J. Diaz (2009). "Striatal GPR88 expression is confined to the whole projection neuron population and is regulated by dopaminergic and glutamatergic afferents." *Eur J Neurosci* 30(3): 397-414.
35. Gardier, A. M., B. P. Guiard, J. P. **Guilloux**, C. Reperant, F. Coudore and D. J. David (2009). "Interest of using genetically manipulated mice as models of depression to evaluate antidepressant drugs activity: a review." *Fundam Clin Pharmacol* 23(1): 23-42.
36. David, D. J., B. A. Samuels, Q. Rainer, J. W. Wang, D. Marsteller, I. Mendez, M. Drew, D. A. Craig, B. P. Guiard, J. P. **Guilloux**, R. P. Artymyshyn, A. M. Gardier, C. Gerald, I. A. Antonijevic, E. D. Leonardo and R. Hen (2009). "Neurogenesis-dependent and -independent effects of fluoxetine in an animal model of anxiety/depression." *Neuron* 62(4): 479-493.
37. Deltheil, T., B. P. Guiard, J. P. **Guilloux**, L. Nicolas, C. Delomenie, C. Reperant, E. Le Maitre, I. Leroux-Nicollet, S. Benmansour, F. Coudore, D. J. David and A. M. Gardier (2008). "Consequences of changes in BDNF levels on serotonin neurotransmission, 5-HT transporter expression and function: studies in adult mice hippocampus." *Pharmacol Biochem Behav* 90(2): 174-183.
38. Deltheil, T., B. P. Guiard, J. Cerdan, D. J. David, K. F. Tanaka, C. Reperant, J. P. **Guilloux**, F. Coudore, R. Hen and A. M. Gardier (2008). "Behavioral and serotonergic consequences of decreasing or increasing hippocampus brain-derived neurotrophic factor protein levels in mice." *Neuropharmacology* 55(6): 1006-1014.
39. Guiard, B. P., J. P. **Guilloux**, C. Reperant, S. P. Hunt, M. Toth and A. M. Gardier (2007). "Substance P neurokinin 1 receptor activation within the dorsal raphe nucleus controls serotonin release in the mouse frontal



cortex." Mol Pharmacol 72(6): 1411-1418.

40. Molles, B. E., U. Maskos, S. Pons, M. Besson, P. Guiard, J. P. **Guilloux**, A. Evrard, A. Cormier, M. Mameli-Engvall, I. Cloez-Tayarani, H. Nakatani, N. Dufour, A. P. Bemelmans, J. Mallet, P. Cazala, A. M. Gardier, V. David, P. Faure, S. Granon and J. P. Changeux (2006). "Targeted in vivo expression of nicotinic acetylcholine receptors in mouse brain using lentiviral expression vectors." J Mol Neurosci 30(1-2): 105-106.

41. **Guilloux**, J. P., D. J. David, B. P. Guiard, F. Chenu, C. Reperant, M. Toth, M. Bourin and A. M. Gardier (2006). "Blockade of 5-HT1A receptors by (+/-)-pindolol potentiates cortical 5-HT outflow, but not antidepressant-like activity of paroxetine: microdialysis and behavioral approaches in 5-HT1A receptor knockout mice." Neuropsychopharmacology 31(10): 2162-2172.

42. Maskos, U., B. E. Molles, S. Pons, M. Besson, B. P. Guiard, J. P. **Guilloux**, A. Evrard, P. Cazala, A. Cormier, M. Mameli-Engvall, N. Dufour, I. Cloez-Tayarani, A. P. Bemelmans, J. Mallet, A. M. Gardier, V. David, P. Faure, S. Granon and J. P. Changeux (2005). "Nicotine reinforcement and cognition restored by targeted expression of nicotinic receptors." Nature 436(7047): 103-107.

43. Guiard, B. P., C. Przybylski, J. P. **Guilloux**, I. Seif, N. Froger, C. De Felipe, S. P. Hunt, L. Lanfumey and A. M. Gardier (2004). "Blockade of substance P (neurokinin 1) receptors enhances extracellular serotonin when combined with a selective serotonin reuptake inhibitor: an in vivo microdialysis study in mice." J Neurochem 89(1): 54-63.

44. Bert, L., D. Favale, G. Jégo, P. Greve, J. P. **Guilloux**, B. P. Guiard, A. M. Gardier, M. F. Suaud-Chagny and P. Lestage (2004). "Rapid and precise method to locate microdialysis probe implantation in the rodent brain." J Neurosci Methods 140(1-2): 53-57.



Chapitres de livre

1. David, D. J., B. P. Guiard, **J. P. Guilloux** and A. M. Gardier (2013). Pharmacologie des antidépresseurs : modèles animaux. Les Antidépresseurs. E. Corruble. Paris, Flammarion Médecine/Sciences: 40-51.
2. **Guilloux JP**, David DJ, Samuels BA, David I, Gardier AM, Guiard BP (2012). Non-response to initial antidepressant therapy. in Psychology, Intech Editions.
3. DJ David, Guiard BP, **Guilloux JP**, Gardier AM. (2012). Pharmacologie des antidépresseurs : Modèles animaux. Les Antidépresseurs. E. Corruble. Paris, Flammarion Médecine/Sciences: 40-51.
4. Deltheil, T., B. Guiard, **J. P. Guilloux**, D. David, F. Coudore and A. M. Gardier (2012). Sérotonine et facteurs neurotrophiques dans la dépression. Sérotonine: aspects biologiques et cliniques. O. Spreux-Varoquaux. Paris, Lavoisier - Médecine Sciences. 1: 329-370.

Posters & Communications Orales

Communications Orales

1. **Guilloux J.P.**, Massart R., Samaha A.N., Mignon V., Arrang J.M., Diaz J. Could nicotine potentiate the beneficial effects of levodopa in the 6OHDA rat model? A behavioural study. **21st Annual Meeting of the European College of Neuropsychopharmacology**, Barcelona, Spain September 2008.
2. **Guilloux J.P.**, Guiard B., Artigas F, Toth M., Gardier A.M. Does (±)-pindolol act on 5-HT_{1A} autoreceptors located in the Dorsal Raphé Nucleus of C57Bl6J Mice when combined with an antidepressant drug : a study in Wild-Type and 5-HT_{1A} receptor null mutant mice. **8th Annual Meeting of the French Society of Pharmacology**, Strasbourg, France, April 2004

Invitation Conférence

1. **Guilloux J.P.** "Modeling treatment-resistant depression" Département de Psychiatrie, Campbell Family Mental Health Research Institute, Centre for Addiction and Mental Health, University of Toronto, Toronto, Canada, 20 Novembre 2014.
2. **Guilloux J.P.** "Non-response to chronic antidepressant treatment in a neuroendocrine model of depression" Département de Psychiatrie translationnelle, Pittsburgh, USA, 3 Aout 2013.
3. **Guilloux J.P.** "Animal models of TRD: from benchside to human pathology" Département de Psychiatrie translationnelle, Pittsburgh, USA, 20 Octobre 2012.
4. **Guilloux J.P.** "Altérations transcriptomiques dans la dépression majeure: BDNF, GABA et approches translationnelles" Centre de Psychiatrie et de Neurosciences, Paris, France, 16 Novembre 2012.

Posters

1. Felice D., **Guilloux J.P.**, Li Y., Pehrson A.L., Mendez-David I., Gardier A.M., Sánchez C., David D.J. Chronic Vortioxetine Treatment Improves Pattern Separation in Mice. **70th Annual Scientific Convention of the Society of Biological Psychiatry**, Toronto, Canada, May 2015.
2. Mekiri M., Xia L., Faye C., Gardier A.M., David D.J., **Guilloux J.P.** Non-response and resistance to chronic antidepressant treatment: a behavioural and neurogenic study in a neuroendocrine-based model of depression. **ECNP Workshop**, Nice, France, March 2015.
3. **Guilloux J.P.**, Felice D., Li Y., Pehrson A.L., Mendez-David I., Gardier A.M., Sánchez C., David D.J. Aging and corticosterone administration differently alter mouse emotionality and gene expression in the dentate gyrus. **44th Annual Meeting of Neuroscience**, Washington, U.S.A., November 2014.



4. Darcet F., Beaulieu J.M., Hen R., Gardier A.M., **Guilloux J.P.**, David D.J. Selective β -arrestine 1 deletion in stem cells of the dentate gyrus alters emotional state and dampens antidepressant effects in adult mice. **44th Annual Meeting of Neuroscience**, Washington, U.S.A., November 2014.
5. Felice D., **Guilloux J.P.**, Li Y., Pehrson A.L., Mendez-David I., Gardier A.M., Sánchez C., David D.J. 5-HT_{1B} Receptors Play a Key Role in Modulation of Pattern Separation Performance and Hedonic State of Old Mice. **27th European College of Neuropsychopharmacology**, Berlin, October 2014.
6. Felice D., **Guilloux J.P.**, Li Y., Pehrson A.L., Mendez-David I., Gardier A.M., Sánchez C., David D.J. Pattern Separation but not Anxiety/Depression-related Behaviours are Impaired in Aging. **69th Annual Scientific Convention of the Society of Biological Psychiatry**, New York, U.S.A., May 2014
7. Ding Y., Chang L.C., Wang X., **Guilloux J. P.**, Parrish J., Oh H., Lewis D.A., Tseng G.C., Sibille E. Combined brain transcriptome meta-analysis and genome-wide association studies provide evidence for shared and selective genetic risk between depression, cardiovascular disease and metabolic syndrome. **52nd ACNP Meeting**, Hollywood Florida, U.S.A., December 2013.
8. Besson M., Morel C., Fattore L., Pons S., Hay A., Reperant C., **Guilloux J. P.**, Marti F., Granon S., Gardier A. M., Lamboloz B., Fratta W., De Biasi M., Lathrop M., Faure P., Maskos M. Brain-region specific implication of native and polymorphic alpha5 containing nicotinic receptors in behaviours modulated by nicotine. **43rd Annual Meeting of Neuroscience**, San Diego, U.S.A., November 2013.
9. **Guilloux J.P.**, Xia L., Rainer Q., Deloménie C., Chang L.C., Gabriel C., Mocaer E., David D.J., Sibille E.L., Gardier A. Chronic Agomelatine reverses corticolimbic transcriptome changes induced by corticosterone in a neuroendocrine model of depression. **42nd Annual Meeting of Neuroscience**, New Orleans, U.S.A., October 2012.
10. Sibille E., Wang X., Ding Y., Parrish J., Oh H., **Guilloux J.P.**, Lewis D.A., Tseng G.C. Transcriptome meta-analysis in major depression. **42nd Annual Meeting of Neuroscience**, New Orleans, U.S.A., October 2012.
11. Parrish J.N., Wang X., Ding Y., **Guilloux J.P.**, Lewis D.A., Tseng G.C., Sibille E. Real-time quantitative polymerase chain reaction (qPCR) validation for genes identified by meta-analysis of gene array studies in major depression. **42nd Annual Meeting of Neuroscience**, New Orleans, U.S.A., October 2012.
12. Gardier A.M., Repérant C., Guiard B.P., **Guilloux J.P.**, David D.J. Antidepressant-like effects of a sub-anesthetic ketamine dose on behaviour and 5-HT neurotransmission in a neuroendocrine model of anxiety/depression in mice. **42nd Annual Meeting of Neuroscience**, New Orleans, U.S.A., October 2012.
13. Tripp AC, Oh H, **Guilloux JP**, Martinowich K, Lewis DA, Sibille E. BDNF- and GABA- Related Gene Dysregulation in the Anterior Cingulate Cortex in Major Depressive Disorder. **67th Annual Scientific Convention of the Society of Biological Psychiatry**, Philadelphia, U.S.A, May 2012.
14. **Guilloux J.P.**, Guiard BP, Alan Pehrson A, Indira David I, Reperant C, Gardier AM, Hen R, Bjornholm B, Ebert B, Miller S, Sanchez C, David DJ. Anxiolytic and Antidepressant potential of the multimodal antidepressant Lu AA21004 assessed by behavioral and neurogenesis outcomes in mice. **67th Annual Scientific Convention of the Society of Biological Psychiatry**, Philadelphia, U.S.A, May 2012.
15. **Guilloux J.P.**, Douillard-Guilloux G., Sibille E. Reduced somatostatin in amygdala of female depressed subjects. **41st Annual Meeting of Neuroscience**, Washington D.C., U.S.A., November 2011.
16. Oh H., **Guilloux J.P.** Tripp A., Martinowich K., Lewis D.A., Sibille E. BDNF- and GABA- related gene dysregulation in the anterior cingulate cortex in major depressive disorder. **41st Annual Meeting of Neuroscience**, Washington D.C., U.S.A., November 2011.
17. Sibille E., Wang X., Kota R., Douillard-Guilloux G., Tseng G., Lewis D.A., **Guilloux J.P.** Amygdala Transcriptome Analysis in Female Major Depression Reveals Alterations in BDNF support and GABA-related signaling. **49th ACNP Meeting**, Miami Beach Florida, U.S.A., December 2010.



18. **Guilloux J.P.**, Wang X., Tseng G., Lewis D.A., Sibille E. Amygdala transcriptome analysis in female major depressive disorder. **40th Annual Meeting of Neuroscience**, San Diego, U.S.A., November 2010.
19. Rainer Q., Gabriel C., Mocaër E., Xia L., Hen R., Enhamre E., **Guilloux J.P.**, Gardier A., David D.J. Beneficial effects of chronic treatment with agomelatine (S20098) on behaviour and adult hippocampal neurogenesis in a new model of anxiety/depression in mice. **40th Annual Meeting of Neuroscience**, San Diego, U.S.A., November 2010.
20. Guiard B, Nguyen TH, Xia L, Rainer Q, David D, **Guilloux JP**, Gardier A. Evidence of the involvement of 5-HT2 receptor on SSRI-induced inhibition of Dorsal Raphe 5-HT neurons firing rate in double 5-HT1A/1B receptor knockout mice. **27th CINP Congress Meeting**, Hong Kong, People Republic of China, June 2010
21. Edgar N., **Guilloux J.P.**, Touma C., Palme R., Sibille E. Mice Lacking the Oligodendrocyte-Specific Gene Cnpl Display a Low Emotionality Phenotype in Two Models of Depression. **65th Annual Convention of the Society-of-Biological-Psychiatry**, New Orleans, USA, May 2010.
22. Humbert-Claude M., **Guilloux J.P.**, Arrang J.M. Antiparkinsonian effects of H3 receptor inverse agonists: a behavioural study with ciproxifan in the 6-OHDA rat model. **ECNP Workshop on Neuropsychopharmacology for Young Scientists in Europe**, Nice, France, March 2010.
23. Xia L., Deloménie C., Leman S., Imbeaud S., Delacroix H., David D.J., **Guilloux J.P.**, Gardier A. Expression profile of genes in the ventral hippocampus of 5-HT1A/1B double knockout mice. **39th Annual Meeting of Neuroscience**, Chicago, U.S.A., November 2008.
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