

AGNES NADJAR
PERSONAL BIBLIOGRAPHY (Sept 2018)

45 in total, including 7 reviews, 3 book chapter and 5 non-peer reviewed articles. Of these, 15 as first or co-first author; 7 as last or co-last author. Google scholar report: H-index 23; 1568 citations. WOS report: H-index: 19; 1053 citations

- 1- **Nadjar A**, Combe C, Layé S, Tridon V, Dantzer R, Amédée T, Parnet P (2003). Nuclear factor kappaB nuclear translocation as a crucial marker of brain response to interleukin-1. A study in rat and interleukin-1 type I deficient mouse. *Journal of Neurochemistry* 87(4):1024-36
- 2- **Nadjar A**, Tridon V, May MJ, Ghosh S, Dantzer R, Amédée T, Parnet P (2005). NFkappaB activates in vivo the synthesis of inducible Cox-2 in the brain. *Journal Cerebral Blood Flow and Metabolism* 25(8):1047-59
- 3- **Nadjar A**, Bluthé RM, May MJ, Dantzer R, Parnet P (2005). Inactivation of the cerebral NFkappaB pathway inhibits interleukin-1beta-induced sickness behavior and c-Fos expression in various brain nuclei. *Neuropsychopharmacology*. 30(8):1492-9.
- 4- **Nadjar A**, Combe C, Busquet P, Dantzer R, Parnet P (2005). Signaling pathways of interleukin-1 actions in the brain: anatomical distribution of phospho-ERK1/2 in the brain of rat treated systemically with interleukin-1beta. *Neuroscience*. 2005;134(3):921-32
- 5- **Nadjar A**, Brotchie JM, Guigoni C, Li Q, Zhou SB, Wang GJ, Ravenscroft P, Georges F, Crossman AR, Bezard E (2006). Phenotype of striatofugal medium spiny neurons in parkinsonian and dyskinetic nonhuman primates: a call for a reappraisal of the functional organization of the basal ganglia., *The Journal of Neuroscience*, 23;26(34):8653-61
- 6- Pasquereau B, **Nadjar A**, Arkadir D, Gouaillandeu M, Bioulac B, Gross CE, Boraud T (2007). How the basal ganglia induce decision: Shaping of the motor response by the reward value, *The Journal of Neuroscience*, 27 1176-1183
- 7- Gold SJ, Hoang CV, Potts BW, Porras G, Pioli E, Kim KW, **Nadjar A**, Qin C, LaHoste GJ, Li Q, Bioulac BH, Waugh JL, Gurevich E, Neve RL, Bezard E (2007). RGS9-2 negatively modulates L-dopa-induced dyskinesia in experimental Parkinson's disease, *The Journal of Neuroscience*, 27 14338-48
- 8- Reese R, Winter C, **Nadjar A**, Harnack D, Bezard E, Kupsch A, Meissner W (2008). Impact of High Frequency Stimulation on striatal Tyrosine Hydroxylase phosphorylation state, *Neuroreport*, 19(2):179-82
- 9- Schuster S, **Nadjar A**, Guo JT, Li Q, Ittrich C, Hengerer B and Bezard E (2008). The HMG-CoA Reductase Inhibitor Lovastatin reduces severity of L-dopa-induced abnormal involuntary movements in experimental Parkinson's disease, *The Journal of Neuroscience*, 28(17):4311-6
- 10- **Nadjar A**, Berton O, Guo S, Leneuve, P, Dovero S, Zhao B, Holzenberger M, Bezard E (2009). IGF-1 signaling reduces neuro-inflammatory response and sensitivity of neurons to MPTP, *Neurobiology of aging*, 30(12):2021-30
- 11- **Nadjar A**, Gerfen C.R., Bezard E (2009). Priming for L-dopa-induced dyskinesia in Parkinson's disease: concepts and pathophysiology, *Progress in Neurobiology, review* 12;87(1):1-9.

- 12- Reese R, Charron G, **Nadjar A**, Aubert I, Thiolat ML, Hamann M, Richter A, Bezard E, Meissner WG (2009). High frequency stimulation of the entopeduncular nucleus sets the cortico-basal ganglia network to a new functional state in the dystonic hamster, *Neurobiology of Disease*, 35(3):399-405
- 13- Palin K, Moreau ML, Sauvant J, Orcel H, **Nadjar A**, Duvoid-Guillou A, Dudit J, Rabié A and Moos F (2009). Interleukin-6 Activates Hypothalamic Arginine-Vasopressin Neurons during Immune Challenge in Rats, *American Journal of Physiology, Endocrinology and Metabolism*, 296(6):1289-99
- 14- **Nadjar A**, Sauvant J, Dantzer R, Parnet P and Konsman JP (2010). Brain cyclooxygenase-2 mediates interleukin-1-induced cellular activation in preoptic and arcuate hypothalamus, but not sickness symptoms, *Neurobiology of disease* 39(3):393-401
- 15- Dejean C, **Nadjar A**, Bioulac B, Gross CE and Boraud T (2012). Evolution of the dynamic properties of the cortex-basal ganglia network after dopaminergic depletion in rats, *Neurobiology of disease*, 46(2):402-13
- 16- Labrousse VF*, **Nadjar A***, Costes L, Gregoire S, Bretillon L and Laye S (2012). Beneficial effects of dietary omega-3 polyunsaturated fatty acid on age related neuroinflammation and astrocytic processes in the hippocampus, *Plos One*, 7(5):e36861 (* co-first authors)
- 17- **Nadjar A**, Blutstein T, Laye S, Haydon PG (2013). Astrocyte-derived adenosine modulates increased sleep pressure during inflammatory response, *Glia* 61(5):724-31.
- 18- Madore C, Joffre C, Delpech JC, De Smedt-Peyrusse V, Aubert A, Coste L, Layé S*, **Nadjar A*** (2013). Early morphofunctional plasticity of microglia in response to acute lipopolysaccharide, *Brain Behavior and Immunity*, Nov;34:151-8 (* co-senior authors)
- 19- Sauvant J, J. Dudit, M. Benoît-Marand, J.C. Delpech, P. Roux, A. Aubert, C. Llorens-Cortes, S. Layé, F. Moos, **A. Nadjar** (2014). Cellular and molecular mechanisms involved in vasopressin neuron dysfunction during aging, *PLoS One*. Feb 5;9(2):e87421
- 20- Joffre C, **Nadjar A**, Calon F, Laye S (2014). " Diet and Nutrition in Dementia and Cognitive Decline". *Prostaglandins Leukot Essent Fatty Acids*, review Jul-Aug;91(1-2):1-20
- 21- Madore C, **Nadjar A**, Delpech JC, Sere A, Aubert A, Portal C, Joffre C, Layé S (2014). Nutritional n-3 PUFAs deficiency during perinatal periods alters brain innate immune system and neuronal plasticity-associated genes. *Brain Behavior and Immunity* Oct;41:22-31.
- 22- Delpech JC, Madore C, **Nadjar A**, Joffre C, Wohleb E and Layé S (2015). Microglia in neuronal plasticity: influence of stress, *Neuropharmacology*, review 2015 Sep;96 (Pt A):19-28
- 23- Delpech JC, Saucisse N, Aubert A, Casenave F, Sans N, Layé S, Ferreira G* and **Nadjar A*** (2015). Microglial activation exacerbates associative taste memory through purinergic modulation of glutamatergic neurotransmission, *The Journal of Neuroscience*, Feb 18;35(7):3022-33 (* co-senior authors)
- 24- Delpech JC, Madore C, Joffre C, Aubert A, Kang JX, **Nadjar A**, Layé S (2015). Transgenic increase in n-3/n-6 fatty acid ratio protects against cognitive deficits induced by an immune challenge through decrease of neuroinflammation. *Neuropsychopharmacology* Feb;40(3):525-36.

- 25- Delpech JC, Thomazeau A, Madore C, Bosch-Bouju C, Larrieu T, Lacabanne C, Remus-Borel J, Aubert A, Joffre C, **Nadjar A***, Layé S* (2015). Dietary n-3 PUFAs Deficiency Increases Vulnerability to Inflammation-Induced Spatial Memory Impairment. *Neuropsychopharmacology* Nov;40(12):2774-87 (* co-senior authors)
- 26- Rey C, **Nadjar A**, Buaud B, Vaysse C, Aubert A, Pallet V, Layé S, Joffre C. Resolvin D1 and E1 promote resolution of inflammation in microglial cells in vitro. *Brain Behavior and Immunity* 2016 Jul;55:249-59.
- 27- Abiega O*, Beccari S*, Diaz-Aparicio I*, **Nadjar A**, Layé S, Leyrolle Q, Gómez-Nicola D, Domercq M, Pérez-Samartín A, Sánchez-Zafra V, Paris I, Valero J, Savage JC, Hui CW, Tremblay MÈ, Deudero JJ, Brewster AL, Anderson AE, Zaldumbide L, Galbarriatu L, Marinas A, Vivanco Md, Matute C, Maletic-Savatic M, Encinas JM, Sierra A (2016) Neuronal Hyperactivity Disturbs ATP Microgradients, Impairs Microglial Motility, and Reduces Phagocytic Receptor Expression Triggering Apoptosis/Microglial Phagocytosis Uncoupling. *PLoS Biol.* May 26;14(5):e1002466
- 28- **Nadjar A**, Leyrolle Q, Joffre C, Layé S (2016) Bioactive lipids as new class of microglial modulators: When nutrition meets neuroimmunology. *Progress in Neuro-Psychopharmacology and Biological Psychiatry*, 2016 Jul 5
- 29- Dinel AL, Rey C, Baudry C, Fressange-Mazda C, LeRuyet P, **Nadjar A**, Pallet P, Joffre C, Layé S Enriched dairy fat matrix diet prevents early life lipopolysaccharide- induced spatial memory impairment at adulthood, *PLEFA*, 2016 Oct
- 30- Corinne Joffre, Stéphane Grégoire, Véronique De Smedt, Niyazi Acar, Lionel Bretillon, **Agnès Nadjar**, Sophie Layé. Modulation of brain PUFA content in different experimental models of mice, *PLEFA*, 2016 Nov;114:1-10.
- 31- Charlotte Madore, Quentin Leyrolle, Chloé Lacabanne, Anouk Benmamar-Badel, Corinne Joffre, **Agnès Nadjar** and Sophie Layé. Neuroinflammation in autism: plausible role of maternal inflammation, dietary omega 3 and microbiota, *Neural plasticity*, 2016;2016:3597209.
- 32- André C, Guzman-Quevedo O, Rey C, Rémus-Borel J, Clark S, Castellanos-Jankiewicz A, Ladeveze E, Leste-Lasserre T, **Nadjar A**, Abrous DN, Laye S, Cota D. Inhibiting Microglia Expansion Prevents Diet-induced Hypothalamic and Peripheral Inflammation. *Diabetes*. 2016 Nov 30.
- 33- **Nadjar A**, Wigren HKM and Tremblay ME. Roles of Microglial Phagocytosis and Inflammatory Mediators in the Pathophysiology of Sleep Disorders. *Frontiers in Cellular Neuroscience*. Review. 2017 Aug 30.
- 34- Laye S, **Nadjar A**, Joffre C, Bazinet RP Anti-inflammatory effects of omega-3 fatty acids in the brain: Physiological mechanisms and relevance to pharmacology. *Pharmacological Reviews*, 2018 Jan;70(1):12-38.
- 35- Rey C, **Nadjar A**, Joffre F, Amadiou C, Aubert A, Vaysse C, Pallet V, Layé S, Joffre C. Maternal n-3 polyunsaturated fatty acid dietary supply modulates microglia lipid content in the offspring. *Prostaglandins, Leukotrienes and Essential Fatty Acids*, 2018 133 1-7
- 36- Labrousse V[§], Leyrolle Q[§], Amadiou C, Aubert A, Sere A, Coutureau E, Gregoire S, Bretillon L, Pallet V, Gressens P, Joffre C, **Nadjar A***, Layé S*. Dietary omega-3 deficiency exacerbates inflammation and reveals spatial memory deficits in mice exposed to lipopolysaccharide during gestation. *Brain Behavior and Immunity*, in press ([§] co-first-authors; * co-senior authors).

37- **Nadjar A.** Role of metabolic programming in the modulation of microglia phagocytosis by lipids. Review. *Prostaglandins, Leukotrienes and Essential Fatty Acids*, in press.

Book Chapter

- 1- Layé S, Madore C, Delpéch JC and **Nadjar A** (2014) N-3 polyunsaturated fatty acid and neuroinflammation in aging: role in cognition.
- 2- **Nadjar A**, Leyrolle Q, Joffre C, Layé S (2017) Anti-inflammatory properties of dietary n-3 polyunsaturated fatty acids protect against cognitive decline in aging and neurodegenerative diseases.
- 3- Joffre C, Rey C, **Nadjar A**, Layé S (2018) N-3 long chain PUFA-containing phospholipids and neuroprotection

Non-peer reviewed publications

- 1- **Layé S, Delpéch, JC, DeSmedt-Peyrusse V**, Joffre C, Larrieu T, Madore C, **Nadjar A**, Capuron L (2011) Neuroinflammation and aging: influence of dietary n-3 polyunsaturated fatty acid. Journée Chevreul "Lipids and Brain"
- 2- **Nadjar A**, Madore C, Séré A, Aubert A, Layé S (2011). Anti-inflammatory properties of omega 3 supplementation restore normal microglia-neuron interactions in the hippocampus in a model of prenatal inflammation, *Glia Volume 61, Issue Supplement S1 Pages S1 - S216*
- 3- Layé S, Delpéch JC, DeSmedt-Peyrusse V, Joffre C, Larrieu T, Madore C, **Nadjar A**, Capuron L (2011). Neuroinflammation and aging: influence of dietary n-3 polyunsaturated fatty acid. *OilSeed and Fat Crops and Lipids, review*
- 4- Corinne Joffre, Charlotte Rey, **Agnès Nadjar** and Sophie Layé (2016) Role of n-3 PUFAs in inflammation via resolvin biosynthesis *Oilseeds and Fat Crops and Lipids*, 2016
- 5- Quentin Leyrolle, Sophie Layé and **Agnès Nadjar** (2016) N-3 PUFAs and neuroinflammatory processes in cognitive disorders, *Oilseeds and Fat Crops and Lipids*, 2016