

Scientific publications (mentioning the Neuro-CEB Brainbank)

Publications scientifiques (citant le Neuro-CEB)

2021

- 1) Chambraud B, Daguinot C, Guillemeau K, Genet M, Dounane O, Meduri G, Poüs C, Baulieu EE, Giustiniani J. Decrease of neuronal FKBP4/FKBP52 modulates perinuclear lysosomal positioning and MAPT/Tau behavior during MAPT/Tau-induced proteotoxic stress. *Autophagy*. 2021 Jan 25:1-20.
- 2) Fenyi A, Duyckaerts C, Bousset L, Braak H, Del Tredici K, Melki R, On Behalf Of The Brainbank Neuro-Ceb Neuropathology Network. Seeding Propensity and Characteristics of Pathogenic α Syn Assemblies in Formalin-Fixed Human Tissue from the Enteric Nervous System, Olfactory Bulb, and Brainstem in Cases Staged for Parkinson's Disease. *Cells*. 2021 Jan 12;10(1):139.
- 3) Valverde A, Dunys J, Lorivel T, Debayle D, Gay AS, Lacas-Gervais S, Roques BP, Chami M, Checler F. Aminopeptidase A contributes to biochemical, anatomical and cognitive defects in Alzheimer's disease (AD) mouse model and is increased at early stage in sporadic AD brain. *Acta Neuropathol*. 2021 Apr 21.
- 4) Teyssou E, Muratet F, Amador MD, Ferrien M, Lautrette G, Machat S, Boillée S, Larmonier T, Saker S, Leguern E, Cazeneuve C, Marie Y, Guegan J, Gyorgy B, Cintas P, Meininger V, Le Forestier N, Salachas F, Couratier P, Camu W, Seilhean D, Millecamps S. Genetic screening of ANXA11 revealed novel mutations linked to amyotrophic lateral sclerosis. *Neurobiol Aging*. 2021 Mar;99:102.e11-102.e20.
- 5) Muratet F, Teyssou E, Chiot A, Boillée S, Lobsiger CS, Bohl D, Gyorgy B, Guegan J, Marie Y, Amador MDM, Salachas F, Meininger V, Bernard E, Antoine JC, Camdessanché JP, Camu W, Cazeneuve C, Fauret-Amsellem AL, Leguern E, Mouzat K, Guissart C, Lumbroso S, Corcia P, Vourc'h P, Grapperon AM, Attarian S, Verschuere A, Seilhean D, Millecamps S. Impact of a frequent nearsplice *SOD1* variant in amyotrophic lateral sclerosis: optimising *SOD1* genetic screening for gene therapy opportunities. *J Neurol Neurosurg Psychiatry*. 2021 Mar 30;jnnp-2020-325921.

2020

- 6) Ando K, De Decker R, Vergara C, Yilmaz Z, Mansour S, Suain V, Slegers K, de Fisenne MA, Houben S, Potier MC, Duyckaerts C, Watanabe T, Buée L, Leroy K, Brion JP. Picalm reduction exacerbates tau pathology in a murine tauopathy model. *Acta Neuropathol*. 2020 Jan 10.
- 7) Orme T, Hernandez D, Ross OA, Kun-Rodrigues C, Darwent L, Shepherd CE, Parkkinen L, Ansoorge O, Clark L, Honig LS, Marder K, Lemstra A, Rogaeva E, St George-Hyslop P, Londos E, Zetterberg H, Morgan K, Troakes C, Al-Sarraj S, Lashley T, Holton J, Compta Y, Van Deerlin V, Trojanowski JQ, Serrano GE, Beach TG, Lesage S, Galasko D, Masliah E, Santana I, Pastor P, Tienari PJ, Myllykangas L, Oinas M, Revesz T, Lees A, Boeve BF, Petersen RC, Ferman TJ, Escott-Price V, Graff-Radford N, Cairns NJ, Morris JC, Pickering-Brown S, Mann D, Halliday G, Stone DJ, Dickson DW, Hardy J, Singleton A, Guerreiro R, Bras J. Analysis of neurodegenerative disease-causing genes in dementia with Lewy bodies. *Acta Neuropathol Commun*. 2020 Jan 29;8(1):5.
- 8) Schueller E, Paiva I, Blanc F, Wang XL, Cassel JC, Boutillier AL, Bousiges O. Dysregulation of histone acetylation pathways in hippocampus and frontal cortex of Alzheimer's disease patients. *Eur Neuropsychopharmacol*. 2020 Feb 11.
- 9) Kunie Ando,^{1,2,3} Marième Ndjim,³ Sabrina Turbant,^{2,3} Gaëlle Fontaine,³ Gustavo Pregoni,³ Luce Dauphinot,³ Zehra Yilmaz,¹ Valérie Suain,¹ Salwa Mansour,¹ Michèle Authélet,¹ Robert De Dekker,¹ Karelle Leroy,¹ Benoît Delatour,³ Brain Bank NeuroCEB Neuropathology Network, Charles Duyckaerts,^{2,3} Marie-Claude Potier,^{#3} and Jean-Pierre Brion. The lipid phosphatase Synaptojanin 1 undergoes a significant alteration in expression and solubility and is associated with brain lesions in Alzheimer's disease. *Acta Neuropathol Commun*. 2020 Jun 3;8(1):79.

- 10) Verma A, Ray A, Bapat D, Diwakar L, Kommaddi RP, Schneider BL, Hirsch EC, Ravindranath V. Glutaredoxin 1 Downregulation in the Substantia Nigra Leads to Dopaminergic Degeneration in Mice. *Mov Disord.* 2020 Oct;35(10):1843-1853.
- 11) Soria FN, Paviolo C, Doudnikoff E, Arotcarena ML, Lee A, Danné N, Mandal AK, Gosset P, Dehay B, Groc L, Cognet L, Bezard E. Synucleinopathy alters nanoscale organization and diffusion in the brain extracellular space through hyaluronan remodeling. *Nat Commun.* 2020 Jul 10;11(1):3440.
- 12) Bertoux M, Cassagnaud P, Lebouvier T, Lebert F, Sarazin M, Le Ber I, Dubois B; NeuroCEB Brain Bank, Auriacombe S, Hannequin D, Wallon D, Ceccaldi M, Maurage CA, Deramecourt V, Pasquier F. Does amnesia specifically predict Alzheimer's pathology? A neuropathological study. *Neurobiol Aging.* 2020 Nov;95:123-130.
- 13) Maharjan N, Saxena S. It Takes Two to Tango: DPRs in ALS and SCA36. *Neuron.* 2020 Jul 22;107(2):202-204.
- 14) Roux T, Barbier M, Papin M, Davoine CS, Sayah S, Coarelli G, Charles P, Marelli C, Parodi L, Tranchant C, Goizet C, Klebe S, Lohmann E, Van Maldergem L, van Broeckhoven C, Coutelier M, Tesson C, Stevanin G, Duyckaerts C, Brice A, Durr A; SPATAX network. Clinical, neuropathological, and genetic characterization of STUB1 variants in cerebellar ataxias: a frequent cause of predominant cognitive impairment. *Genet Med.* 2020 Nov;22(11):1851-1862.
- 15) Kilinc D, Vreulx AC, Mendes T, Flaig A, Marques-Coelho D, Verschoore M, Demiautte F, Amouyel P; Neuro-CEB Brain Bank, Eysert F, Dourlen P, Chapuis J, Costa MR, Malmanche N, Checler F, Lambert JC. Pyk2 overexpression in postsynaptic neurons blocks amyloid β ₁₋₄₂-induced synaptotoxicity in microfluidic co-cultures. *Brain Commun.* 2020 Aug 28;2(2):fcaa139.
- 16) Vaillant-Beuchot L, Mary A, Pardossi-Piquard R, Bourgeois A, Lauritzen I, Eysert F, Kinoshita PF, Cazareth J, Badot C, Fragaki K, Bussiere R, Martin C, Mary R, Bauer C, Pagnotta S, Paquis-Flucklinger V, Buée-Scherrer V, Buée L, Lacas-Gervais S, Checler F, Chami M. Accumulation of amyloid precursor protein C-terminal fragments triggers mitochondrial structure, function, and mitophagy defects in Alzheimer's disease models and human brains. *Acta Neuropathol.* 2021 Jan;141(1):39-65.
- 17) Laferrière F, He X, Zinghirino F, Doudnikoff E, Faggiani E, Meissner WG, Bezard E, De Giorgi F, Ichas F. Overexpression of α -Synuclein by Oligodendrocytes in Transgenic Mice Does Not Recapitulate the Fibrillar Aggregation Seen in Multiple System Atrophy. *Cells.* 2020 Oct 29;9(11):2371.
- 18) Mora P, Hollier PL, Guimbal S, Abelanet A, Diop A, Cornuault L, Couffinhal T, Horng S, Gadeau AP, Renault MA, Chapouly C. Blood-brain barrier genetic disruption leads to protective barrier formation at the Glia Limitans. *PLoS Biol.* 2020 Nov 30;18(11):e3000946.
- 19) Hérard AS, Petit F, Gary C, Guilmier M, Boluda S, Garin CM; Brainbank Neuro-CEB Neuropathology Network, Lam S, Dhenain M. Induction of amyloid- β deposits from serially transmitted, histologically silent, A β seeds issued from human brains. *Acta Neuropathol Commun.* 2020 Nov 30;8(1):205.
- 20) Chiot A, Zaïdi S, Iltis C, Ribon M, Berriat F, Schiaffino L, Jolly A, de la Grange P, Mallat M, Bohl D, Millecamps S, Seilhean D, Lobsiger CS, Boillée S. Modifying macrophages at the periphery has the capacity to change microglial reactivity and to extend ALS survival. *Nat Neurosci.* 2020 Nov;23(11):1339-1351.

2019

- 21) Martin E, Amar M, Dalle C, Youssef I, Boucher C, Le Duigou C, Brückner M, Prigent A, Sazdovitch V, Halle A, Kanellopoulos JM, Fontaine B, Delatour B, Delarasse C. New role of P2X7 receptor in an Alzheimer's disease mouse model. *Mol Psychiatry.* 2019 Jan;24(1):108-125.

- 22) Arotcarena ML, Bourdenx M, Dutheil N, Thiolat ML, Doudnikoff E, Dovero S, Ballabio A, Fernagut PO, Meissner WG, Bezard E, Dehay B. Transcription factor EB overexpression prevents neurodegeneration in experimental synucleinopathies. *JCI Insight*. 2019 Aug 22;4(16). pii: 129719.
- 23) Gary C, Lam S, Hérard AS, Koch JE, Petit F, Gipchtein P, Sawiak SJ, Caillierez R, Eddarkaoui S, Colin M, Aujard F, Deslys JP; French Neuropathology Network, Brouillet E, Buée L, Comoy EE, Pifferi F, Picq JL, Dhenain M. Encephalopathy induced by Alzheimer brain inoculation in a non-human primate. *Acta Neuropathol Commun*. 2019 Sep 4;7(1):126.
- 24) Souchet B, Audrain M, Billard JM, Dairou J, Fol R, Orefice NS, Tada S, Gu Y, Dufayet-Chaffaud G, Limanton E, Carreaux F, Bazureau JP, Alves S, Meijer L, Janel N, Braudeau J, Cartier N. Inhibition of DYRK1A proteolysis modifies its kinase specificity and rescues Alzheimer phenotype in APP/PS1 mice. *Acta Neuropathol Commun*. 2019 Mar 18;7(1):46.
- 25) Mouchard A, Boutonnet MC, Mazzocco C, Biendon N, Macrez N; Neuro-CEB Neuropathology Network. ApoE-fragment/A β heteromers in the brain of patients with Alzheimer's disease. *Sci Rep*. 2019 Mar 8;9(1):3989.
- 26) Rajani RM, Ratelade J, Domenga-Denier V, Hase Y, Kalimo H, Kalaria RN, Joutel A. Blood brain barrier leakage is not a consistent feature of white matter lesions in CADASIL. *Acta Neuropathol Commun*. 2019 Nov 21;7(1):187.
- 27) Riku Y, Duyckaerts C, Boluda S, Plu I, Le Ber I, Millecamps S, Salachas F; Brainbank NeuroCEB Neuropathology Network, Yoshida M, Ando T, Katsuno M, Sobue G, Seilhean D. Increased prevalence of granulovacuolar degeneration in C9orf72 mutation. *Acta Neuropathol*. 2019 Nov;138(5):783-793.
- 28) Bussiere R, Oulès B, Mary A, Vaillant-Beuchot L, Martin C, El Manaa W, Vallée D, Duplan E, Paterlini-Bréchet P, Alves Da Costa C, Checler F, Chami M. Upregulation of the Sarco-Endoplasmic Reticulum Calcium ATPase 1 Truncated Isoform Plays a Pathogenic Role in Alzheimer's Disease. *Cells*. 2019 Nov 28;8(12).
- 29) Thierry M, Boluda S, Delatour B, Marty S, Seilhean D; Brainbank Neuro-CEB Neuropathology Network, Potier MC, Duyckaerts C. Human subiculo-fornico-mamillary system in Alzheimer's disease: Tau seeding by the pillar of the fornix. *Acta Neuropathol*. 2019 Dec 10.
- 30) Carvalho K, Faivre E, Pietrowski MJ, Marques X, Gomez-Murcia V, Deleau A, Huin V, Hansen JN, Kozlov S, Danis C, Temido-Ferreira M, Coelho JE, Mériaux C, Eddarkaoui S, Gras SL, Dumoulin M, Cellai L; NeuroCEB Brain Bank, Landrieu I, Chern Y, Hamdane M, Buée L, Boutillier AL, Levi S, Halle A, Lopes LV, Blum D. Exacerbation of C1q dysregulation, synaptic loss and memory deficits in tau pathology linked to neuronal adenosine A2A receptor. *Brain*. 2019 Nov 1;142(11):3636-3654.
- 31) Maatouk L, Yi C, Carrillo-de Sauvage MA, Compagnon AC, Hunot S, Ezan P, Hirsch EC, Koulakoff A, Pfrieder FW, Tronche F, Leybaert L, Giaume C, Vyas S. Glucocorticoid receptor in astrocytes regulates midbrain dopamine neurodegeneration through connexin hemichannel activity. *Cell Death Differ*. 2019 Mar;26(3):580-596.

2018

- 32) Dominguez G, Maddelein ML, Pucelle M, Nicaise Y, Maurage CA, Duyckaerts C, Cuvillier O, Delisle MB. Neuronal sphingosine kinase 2 subcellular localization is altered in Alzheimer's disease brain. *Acta Neuropathol Commun*. 2018 Apr 3;6(1):25.
- 33) Hervé D, Porché M, Cabrejo L, Guidoux C, Tournier-Lasserre E, Nicolas G, Adle-Biassette H, Plu I, Chabriat H, Duyckaerts C. Fatal A β cerebral amyloid angiopathy 4 decades after a dural graft at the age of 2 years. *Acta Neuropathol*. 2018 May;135(5):801-803.
- 34) Ando K, Laborde Q, Brion JP, Duyckaerts C. 3D imaging in the postmortem human brain with CLARITY and CUBIC. *Handb Clin Neurol*. 2018;150:303-317.

- 35) Roudil J, Deramecourt V, Dufournet B, Dubois B, Ceccaldi M, Duyckaerts C, Pasquier F, Lebouvier T; Brainbank Neuro-CEB Neuropathology Network. Influence of Lewy Pathology on Alzheimer's Disease Phenotype: A Retrospective Clinico-Pathological Study. *J Alzheimers Dis*. 2018;63(4):1317-1323.
- 36) Pihlstrøm L, Schottlaender L, Chelban V; MSA Exome Consortium, Meissner WG, Federoff M, Singleton A, Houlden H. Lysosomal storage disorder gene variants in multiple system atrophy. *Brain*. 2018 Jul 1;141(7):e53.
- 37) Castrec B, Dian C, Ciccone S, Ebert CL, Bienvenut WV, Le Caer JP, Steyaert JM, Giglione C, Meinel T. Structural and genomic decoding of human and plant myristoylomes reveals a definitive recognition pattern. *Nat Chem Biol*. 2018 Jul;14(7):671-679.
- 38) Viodé A, Fournier C, Camuzat A, Fenaille F; NeuroCEB Brain Bank, Latouche M, Elahi F, Le Ber I, Junot C, Lamari F, Anquetil V, Becher F. New Antibody-Free Mass Spectrometry-Based Quantification Reveals That C9ORF72 Long Protein Isoform Is Reduced in the Frontal Cortex of Hexanucleotide-Repeat Expansion Carriers. *Front Neurosci*. 2018 Aug 28;12:589.
- 39) Maatouk L, Compagnion AC, Sauvage MC, Bemelmans AP, Leclere-Turbant S, Cirotteau V, Tohme M, Beke A, Trichet M, Bazin V, Trawick BN, Ransohoff RM, Tronche F, Manoury B, Vyas S. Author Correction: TLR9 activation via microglial glucocorticoid receptors contributes to degeneration of midbrain dopamine neurons. *Nat Commun*. 2018 Aug 1;9(1):3109.
- 40) Fournier C, Anquetil V, Camuzat A, Stirati-Buron S, Sazdovitch V, Molina-Porcel L, Turbant S, Rinaldi D, Sánchez-Valle R, Barbier M, Latouche M; Neuro-CEB Neuropathology Network, Stevanin G, Seilhean D, Brice A, Duyckaerts C, Le Ber I. Interrupted CAG expansions in ATXN2 gene expand the genetic spectrum of frontotemporal dementias. *Acta Neuropathol Commun*. 2018 May 30;6(1):41.
- 41) Audrain M, Souchet B, Alves S, Fol R, Viode A, Haddjeri A, Tada S, Orefice NS, Joséphine C, Bemelmans AP, Delzescaux T, Déglon N, Hantraye P, Akwa Y, Becher F, Billard JM, Potier B, Dutar P, Cartier N, Braudeau J. β APP Processing Drives Gradual Tau Pathology in an Age-Dependent Amyloid Rat Model of Alzheimer's Disease. *Cereb Cortex*. 2018 Nov 1;28(11):3976-3993.

2017

- 42) Chelban V, Manole A, Pihlstrøm L, Schottlaender L, Efthymiou S, O'Connor E, Meissner WG, Holton JL, Houlden H. Analysis of the prion protein gene in multiple system atrophy. *Neurobiol Aging*. 2017 Jan;49:216.e15-216.e18.
- 43) Ysselstein D, Dehay B, Costantino IM, McCabe GP, Frosch MP, George JM, Bezard E, Rochet JC. Endosulfine- α inhibits membrane-induced α -synuclein aggregation and protects against α -synuclein neurotoxicity. *Acta Neuropathol Commun*. 2017 Jan 10;5(1):3.
- 44) Kun-Rodrigues C, Ross OA, Orme T, Shepherd C, Parkkinen L, Darwent L, Hernandez D, Ansorge O, Clark LN, Honig LS, Marder K, Lemstra A, Scheltens P, van der Flier W, Louwersheimer E, Holstege H, Rogaeva E, St George-Hyslop P, Londos E, Zetterberg H, Barber I, Braae A, Brown K, Morgan K, Maetzler W, Berg D, Troakes C, Al-Sarraj S, Lashley T, Holton J, Compta Y, Van Deerlin V, Trojanowski JQ, Serrano GE, Beach TG, Clarimon J, Lleó A, Morenas-Rodríguez E, Lesage S, Galasko D, Masliah E, Santana I, Diez M, Pastor P, Tienari PJ, Myllykangas L, Oinas M, Revesz T, Lees A, Boeve BF, Petersen RC, Ferman TJ, Escott-Price V, Graff-Radford N, Cairns NJ, Morris JC, Stone DJ, Pickering-Brown S, Mann D, Dickson DW, Halliday GM, Singleton A, Guerreiro R, Bras J. Analysis of C9orf72 repeat expansions in a large international cohort of dementia with Lewy bodies. *Neurobiol Aging*. 2017 Jan;49:214.e13-214.e15.
- 45) Sahel A, Ortiz FC, Kerninon C, Maldonado PP, Angulo MC, Nait-Oumesmar B. Alteration of synaptic connectivity of oligodendrocyte precursor cells following demyelination. *Front Cell Neurosci*. 2015 Mar 17;9:77.

- 46) Bassil F, Cannon MH, Vital A, Bezard E, Li Y, Greig NH, Gulyani S, Kapogiannis D, Fernagut PO, Meissner WG. Insulin resistance and exendin-4 treatment for multiple system atrophy. *Brain*. 2017 May 1;140(5):1420-1436.
- 47) Thierry M, Marty S, Boluda S, Duyckaerts C. Alzheimer's senile plaque as shown by microcryodissection, a new technique for dissociating tissue structures. *J Neural Transm (Vienna)*. 2017 Jun;124(6):685-694.
- 48) Cavaliere F, Cerf L, Dehay B, Ramos-Gonzalez P, De Giorgi F, Bourdenx M, Bessede A, Obeso JA, Matute C, Ichas F, Bezard E. In vitro α -synuclein neurotoxicity and spreading among neurons and astrocytes using Lewy body extracts from Parkinson disease brains. *Neurobiol Dis*. 2017 Jul;103:101-112.
- 49) Duffeant C, Vandesquille M, Herbert K, Garin CM, Alves S, Blanchard V, Comoy EE, Petit F, Dhenain M. Contrast-enhanced MR microscopy of amyloid plaques in five mouse models of amyloidosis and in human Alzheimer's disease brains. *Sci Rep*. 2017 Jul 10;7(1):4955.
- 50) Li T, Vandesquille M, Bay S, Dhenain M, Delatour B, Lafaye P. Selection of similar single domain antibodies from two immune VHH libraries obtained from two alpacas by using different selection methods. *Immunol Lett*. 2017 Aug;188:89-95.

2016

- 51) Le Bouc R, Marelli C, Beaufils E, Berr C, Hommet C, Touchon J, Pasquier F, Deramecourt V. Limiting Factors of Brain Donation in Neurodegenerative Diseases: The Example of French Memory Clinics. *J Alzheimers Dis*. 2016;49(4):1075-83.
- 52) Eisele YS, Duyckaerts C. Propagation of A β pathology: hypotheses, discoveries, and yet unresolved questions from experimental and human brain studies. *Acta Neuropathol*. 2016 Jan;131(1):5-25.
- 53) De Vos A, Struyfs H, Jacobs D, Fransen E, Klewansky T, De Roeck E, Robberecht C, Van Broeckhoven C, Duyckaerts C, Engelborghs S, Vanmechelen E. The Cerebrospinal Fluid Neurogranin/BACE1 Ratio is a Potential Correlate of Cognitive Decline in Alzheimer's Disease. *J Alzheimers Dis*. 2016 Jul 6;53(4):1523-38.
- 54) Papegaey A, Eddarkaoui S, Deramecourt V, Fernandez-Gomez FJ, Pantano P, Obriot H, Machala C, Anquetil V, Camuzat A, Brice A, Maurage CA, Le Ber I, Duyckaerts C, Buée L, Sergeant N, Buée-Scherrer V. Reduced Tau protein expression is associated with frontotemporal degeneration with progranulin mutation. *Acta Neuropathol Commun*. 2016 Jul 19;4(1):74.
- 55) Ando K, Tomimura K, Sazdovitch V, Suain V, Yilmaz Z, Authelet M, Ndjim M, Vergara C, Belkouch M, Potier MC, Duyckaerts C, Brion JP. Level of PICALM, a key component of clathrin-mediated endocytosis, is correlated with levels of phosphotau and autophagy-related proteins and is associated with tau inclusions in AD, PSP and Pick disease. *Neurobiol Dis*. 2016 Oct;94:32-43.
- 56) Meduri G, Guillemeau K, Dounane O, Sazdovitch V, Duyckaerts C, Chambraud B, Baulieu EE, Giustiniani J. Caspase-cleaved Tau-D(421) is colocalized with the immunophilin FKBP52 in the autophagy-endolysosomal system of Alzheimer's disease neurons. *Neurobiol Aging*. 2016 Oct;46:124-37.
- 57) Viereckel T, Dumas S, Smith-Anttila CJ, Vlcek B, Bimpisidis Z, Lagerström MC, Konradsson-Geuken Å, Wallén-Mackenzie Å. Midbrain Gene Screening Identifies a New Mesoaccumbal Glutamatergic Pathway and a Marker for Dopamine Cells Neuroprotected in Parkinson's Disease. *Sci Rep*. 2016 Oct 20;6:35203.

58) Li T, Vandesquille M, Koukouli F, Duffeffant C, Youssef I, Lenormand P, Ganneau C, Maskos U, Czech C, Grueninger F, Duyckaerts C, Dhenain M, Bay S, Delatour B, Lafaye P. Camelid single-domain antibodies: A versatile tool for in vivo imaging of extracellular and intracellular brain targets. *J Control Release*. 2016 Dec 10;243:1-10.

59) Audrain M, Fol R, Dutar P, Potier B, Billard JM, Flament J, Alves S, Burlot MA, Dufayet-Chaffaud G, Bemelmans AP, Valette J, Hantraye P, Déglon N, Cartier N, Braudeau J. Alzheimer's disease-like APP processing in wild-type mice identifies synaptic defects as initial steps of disease progression. *Mol Neurodegener*. 2016 Jan 12;11:5.

2015

60) Coutelier M, Blesneac I, Monteil A, Monin ML, Ando K, Mundwiller E, Brusco A, Le Ber I, Anheim M, Castrioto A, Duyckaerts C, Brice A, Durr A, Lory P, Stevanin G. A Recurrent Mutation in CACNA1G Alters Cav3.1 T-Type Calcium-Channel Conduction and Causes Autosomal-Dominant Cerebellar Ataxia. *Am J Hum Genet*. 2015 Nov 5;97(5):726-37.

61) Lagarde J, Hamelin L, Hahn V, Habert MO, Seilhean D, Duyckaerts C, Sarazin M. Progressive Supranuclear Palsy Syndrome and Semantic Dementia in Neuropathologically Proven Lewy Body Disease: A Report of Two Cases. *J Alzheimers Dis*. 2015;47(1):95-101.

62) Duyckaerts C, Seilhean D, Sazdovitch V, Plu I, Delatour B, Potier MC. Seeding and propagation of lesions in neurodegenerative diseases: a new paradigm. *Bull Acad Natl Med*. 2015 Jun;199(6):809-819.

2014

63) Stygelbout V, Leroy K, Pouillon V, Ando K, D'Amico E, Jia Y, Luo HR, Duyckaerts C, Erneux C, Schurmans S, Brion JP. Inositol trisphosphate 3-kinase B is increased in human Alzheimer brain and exacerbates mouse Alzheimer pathology. *Brain*. 2014 Feb;137(Pt 2):537-52.

64) Panchal M, Gaudin M, Lazar AN, Salvati E, Rivals I, Ayciriex S, Dauphinot L, Dargère D, Auzeil N, Masserini M, Laprévotte O, Duyckaerts C. Ceramides and sphingomyelinases in senile plaques. *Neurobiol Dis*. 2014 May;65:193-201.

65) Ceccom J, Loukh N, Lauwers-Cances V, Touriol C, Nicaise Y, Gentil C, Uro-Coste E, Pitson S, Maurage CA, Duyckaerts C, Cu villier O, Delisle MB. Reduced sphingosine kinase-1 and enhanced sphingosine 1-phosphate lyase expression demonstrate deregulated sphingosine 1-phosphate signaling in Alzheimer's disease. *Acta Neuropathol Commun*. 2014 Jan 27;2:12.

66) Mourtas S, Lazar AN, Markoutsas E, Duyckaerts C, Antimisiaris SG. Multifunctional nanoliposomes with curcumin-lipid derivative and brain targeting functionality with potential applications for Alzheimer disease. *Eur J Med Chem*. 2014 Jun 10;80:175-83.

67) Martel G, Simon A, Nocera S, Kalainathan S, Pidoux L, Blum D, Leclère-Turbant S, Diaz J, Geny D, Moyse E, Videau C, Buée L, Epelbaum J, Viollet C. Aging, but not tau pathology, impacts olfactory performances and somatostatin systems in THY-Tau22 mice. *Neurobiol Aging*. 2015 Feb;36(2):1013-28.

68) Ando K, Laborde Q, Lazar A, Godefroy D, Youssef I, Amar M, Pooler A, Potier MC, Delatour B, Duyckaerts C. Inside Alzheimer brain with CLARITY: senile plaques, neurofibrillary tangles and axons in 3-D. *Acta Neuropathol*. 2014 Sep;128(3):457-9.

69) Becker G, Streichenberger N, Billard T, Newman-Tancredi A, Zimmer L. A postmortem study to compare agonist and antagonist 5-HT_{1A} receptor-binding sites in Alzheimer's disease. *CNS Neurosci Ther*. 2014 Oct;20(10):930-4.

70) Ando K, Kabova A, Stygelbout V, Leroy K, Heraud C, Frédérick C, Suain V, Yilmaz Z, Authélet M, Dedecker R, Potier MC, Duyckaerts C, Brion JP. Vaccination with Sarkosyl insoluble PHF-tau decrease neurofibrillary tangles formation in aged tau transgenic mouse model: a pilot study. *J Alzheimers Dis*. 2014;40 Suppl 1:S135-45.

2013

- 71) Guillot-Sestier MV, Sunyach C, Ferreira ST, Marzolo MP, Bauer C, Thevenet A, Checler F. α -Secretase-derived fragment of cellular prion, N1, protects against monomeric and oligomeric amyloid β (A β)-associated cell death. *J Biol Chem*. 2012 Feb 10;287(7):5021-32. doi: 10.1074/jbc.M111.323626. Epub 2011 Dec 19. Erratum in: *J Biol Chem*. 2013 Jul 19;288(29):21210.
- 72) Lazar AN, Bich C, Panchal M, Desbenoit N, Petit VW, Touboul D, Dauphinot L, Marquer C, Lapr votte O, Brunelle A, Duyckaerts C. Time-of-flight secondary ion mass spectrometry (TOF-SIMS) imaging reveals cholesterol overload in the cerebral cortex of Alzheimer disease patients. *Acta Neuropathol*. 2013 Jan;125(1):133-44.
- 73) Kinugawa K, Monnet Y, Lu L, Bekaert AJ, Th ry C, Mallat Z, Hirsch EC, Hunot S. MFGE8 does not orchestrate clearance of apoptotic neurons in a mouse model of Parkinson's disease. *Neurobiol Dis*. 2013 Mar;51:192-201.
- 74) Jaillard C, Mouret A, Niepon ML, Cl rin E, Yang Y, Lee-Rivera I, A t-Ali N, Millet-Puel G, Cronin T, Sedmak T, Raffelsberger W, Kinzel B, Trembleau A, Poch O, Bennett J, Wolfrum U, Lledo PM, Sahel JA, L veillard T. Nxn12 splicing results in dual functions in neuronal cell survival and maintenance of cell integrity. *Hum Mol Genet*. 2012 May 15;21(10):2298-311.
- 75) Facchinetti P, Dorard E, Contremoulins V, Gaillard MC, D glon N, Sazdovitch V, Guihenneuc-Jouyaux C, Brouillet E, Duyckaerts C, Allinquant B. SET translocation is associated with increase in caspase leaved amyloid precursor protein in CA1 of Alzheimer and Down syndrome patients. *Neurobiol Aging*. 2014 ay;35(5):958-68.
- 76) Lazar AN, Mourtas S, Youssef I, Parizot C, Dauphin A, Delatour B, Antimisiaris SG, Duyckaerts C. Curcumin-conjugated nanoliposomes with high affinity for A β deposits: possible applications to Alzheimer disease. *Nanomedicine*. 2013 Jul;9(5):712-21.
- 77) Ando K, Brion JP, Stygelbout V, Suain V, Authelet M, Dedecker R, Chanut A, Lacor P, Lavaur J, Sazdovitch V, Rogaeva E, Potier MC, Duyckaerts C. Clathrin adaptor CALM/PICALM is associated with neurofibrillary tangles and is cleaved in Alzheimer's brains. *Acta Neuropathol*. 2013 Jun;125(6):861-78.
- 78) Ciura S, Lattante S, Le Ber I, Latouche M, Tostivint H, Brice A, Kabashi E. Loss of function of C9orf72 causes motor deficits in a zebrafish model of amyotrophic lateral sclerosis. *Ann Neurol*. 2013 Aug;74(2):180-7.
- 79) Fournier M, Roux A, Garrigue J, Muriel MP, Blanche P, Lashuel HA, Anderson JP, Barbour R, Huang J, du Montcel ST, Brice A, Corti O. Parkin depletion delays motor decline dose-dependently without overtly affecting neuropathology in α -synuclein transgenic mice. *BMC Neurosci*. 2013 Nov 5;14:135.

2012

- 80) Giustiniani J, Sineus M, Sardin E, Dounane O, Panchal M, Sazdovitch V, Duyckaerts C, Chambraud B, Baulieu EE. Decrease of the immunophilin FKBP52 accumulation in human brains of Alzheimer's disease and FTDP-17. *J Alzheimers Dis*. 2012;29(2):471-83.
- 81) Koulakoff A, Mei X, Orellana JA, S ez JC, Giaume C. Glial connexin expression and function in the context of Alzheimer's disease. *Biochim Biophys Acta*. 2012 Aug;1818(8):2048-57.

2011

- 82) Seilhean D, Le Ber I, Sarazin M, Lacomblez L, Millecamps S, Salachas F, Pradat PF, Le Forestier N, LeGuern E, Dubois B, Meininger V, Brice A, Hauw JJ, Duyckaerts C. Fronto-temporal lobar degeneration: neuropathology in 60 cases. *J Neural Transm (Vienna)*. 2011 May;118(5):753-64.

83) Canovi M, Markoutsas E, Lazar AN, Pampalakis G, Clemente C, Re F, Sesana S, Masserini M, Salmons M, Duyckaerts C, Flores O, Gobbi M, Antimisiaris SG. The binding affinity of anti-A β 1-42 MAb-decorated nanoliposomes to A β 1-42 peptides in vitro and to amyloid deposits in post-mortem tissue. *Biomaterials*. 2011 Aug;32(23):5489-97.

2010

84) Giaime E, Sunyach C, Druon C, Scarzello S, Robert G, Grosso S, Auberger P, Goldberg MS, Shen J, Heutink P, Pouysségur J, Pagès G, Checler F, Alves da Costa C. Loss of function of DJ-1 triggered by Parkinson's disease-associated mutation is due to proteolytic resistance to caspase-6. *Cell Death Differ*. 2010 Jan;17(1):158-69.

85) Panchal M, Loeper J, Cossec JC, Perruchini C, Lazar A, Pompon D, Duyckaerts C. Enrichment of cholesterol in microdissected Alzheimer's disease senile plaques as assessed by mass spectrometry. *J Lipid Res*. 2010 Mar;51(3):598-605.

86) Cronin T, Raffelsberger W, Lee-Rivera I, Jaillard C, Niepon ML, Kinzel B, Clérin E, Petrosian A, Picaud S, Poch O, Sahel JA, Léveillard T. The disruption of the rod-derived cone viability gene leads to photoreceptor dysfunction and susceptibility to oxidative stress. *Cell Death Differ*. 2010 Jul;17(7):1199-210.

87) Vitte J, Traver S, Maués De Paula A, Lesage S, Rovelli G, Corti O, Duyckaerts C, Brice A. Leucine-rich repeat kinase 2 is associated with the endoplasmic reticulum in dopaminergic neurons and accumulates in the core of Lewy bodies in Parkinson disease. *J Neuropathol Exp Neurol*. 2010 Sep;69(9):959-72

88) Gaudin M, Panchal M, Auzeil N, Duyckaerts C, Brunelle A, Laprévote O, Touboul D. Choline-containing phospholipids in microdissected human Alzheimer's disease brain senile plaque versus neuropil. *ioanalysis*. 2012 Sep;4(17):2153-5159.

89) Storvik M, Arguel MJ, Schmieder S, Delerue-Audegond A, Li Q, Qin C, Vital A, Bioulac B, Gross CE, Wong G, Nahon JL, Bezard E. Genes regulated in MPTP-treated macaques and human Parkinson's disease suggest a common signature in prefrontal cortex. *Neurobiol Dis*. 2010 Jun;38(3):386-94.

2009

90) Dunys J, Sevalle J, Giaime E, Pardossi-Piquard R, Vitek MP, Renbaum P, Levy-Lahad E, Zhang YW, Xu H, Checler F, da Costa CA. p53-dependent control of transactivation of the Pen2 promoter by presenilins. *J Cell Sci*. 2009 Nov;122(Pt 21):4003-8.

91) Lafaye P, Achour I, England P, Duyckaerts C, Rougeon F. Single-domain antibodies recognize selectively small oligomeric forms of amyloid beta, prevent Abeta-induced neurotoxicity and inhibit fibril formation. *Mol Immunol*. 2009 Feb;46(4):695-704.

92) Perruchini C, Pecorari F, Bourgeois JP, Duyckaerts C, Rougeon F, Lafaye P. Llama VHH antibody fragments against GFAP: better diffusion in fixed tissues than classical monoclonal antibodies. *Acta Neuropathol*. 2009 Nov;118(5):685-95.

2008

93) Schmieder S, Darré-Toulemonde F, Arguel MJ, Delerue-Audegond A, Christen R, Nahon JL. Primate-specific spliced PMCHL RNAs are non-protein coding in human and macaque tissues. *BMC Evol Biol*. 2008 Dec 9;8:330.

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Lafaye P. and Rougeon F. "Use of a Camelid Single-domain antibody for detecting an oligomeric form of an amyloid peptide and its application". Patent n° : 08826009.6-1223 PCT/IB2008002671 2008