Anne VEJUX | **Curriculum Vitae**

Diplômes

2003-2006 **Doctorat de Biochimie, Biologie Cellulaire et Moléculaire**, UFR Médecine, Université de Bourgogne, Dijon.

« *Caractérisation des figures myéliniques associées à l'accumulation de lipides polaires induites par différents oxystérols cytotoxiques identifiés dans les lésions athéromateuses : étude des relations entre apoptose et métabolisme des lipides* »

Directeur : Dr Gérard Lizard,

Laboratoire : INSERM U498 « Métabolisme des lipoprotéines et interactions vasculaires », Dijon

Financement : Allocation de Recherche Ministérielle

Mention : très honorable

2002-2003 **DEA Biochimie, Biologie Cellulaire et Moléculaire,** UFR Sciences, Université de Bourgogne, Dijon

« Caractérisation biochimique des structures cytoplasmiques colorées par la monodansylcadavérine et étude de la phosphorylation de la protéine PDK-1 au cours de la mort cellulaire induite par le 7-cétocholestérol »

Laboratoire : INSERM U498 « Métabolisme des lipoprotéines et interactions vasculaires », Dijon

Mention : Bien

2001-2002 **Maîtrise Biochimie**, mention "Biochimie Moléculaire et Cellulaire", Université de Franche-Comté, Besançon

Options : Microbiologie et Virologie, Culture de cellules. Mention : Bien

2000-2001 **Licence de Biochimie**. Université de Franche-Comté, Besançon

Options : biologie du développement et physiologie animale. Mention : Bien

1999-2000 **DEUG 2** mention biologie cellulaire, UFR Sciences et Techniques, Université de Franche-Comté, Besançon

Mention Bien

1997-1999 **PCEM1**, UFR de Médecine, Université de Franche-Comté, Besançon

Positions

2011 **Maitre de Conférences en Biochimie**, Université de Bourgogne
Section CNU 64
Laboratoire Bio-PeroxIL EA7270

2010 **Chargé de Recherche Clinique - Centre d'Investigation Clinique/Innovations Technologiques – Besançon** - https://www.fc-sante.fr/cicbt-besancon/public/
Coordonateur : Pr Jean-Marc Chalopin / Coordonateur Technique – Innovations Technologiques : Dr Lionel Pazart
«1er projet : « Validation d'un Microsystème Embarqué pour le Diagnostic des Infections à Cytomegalovirus Au Lit du Patient **»**
2ème projet : Projet MIOTherIS : Micro Innovative Onco Therapeutic Injection System

2009-2010 **Etudes Post-Doctorales – Equipe Estrogènes, Expression Génique et Pathologies du Système Nerveux Central, Université de Franche-Comté**
Directeur : Pr Michèle Jouvenot
« Etude de la régulation de l'expression du gène *qsox1* et des rôles de la protéine QSOX1 dans les fonctions cellulaires caractéristiques des cellules cancéreuses »

2007-2009 **Etudes Post-Doctorales – CEA Laboratoire TIRO – Université de Nice** (http://mednuc.unice.fr/tiro/equipe)
Directeur : Dr Thierry Pourcher
« Etude des effets de l'*iode* sur les fonctions cellulaires de différentes lignées, exprimant ou non le *NIS* (Natrium iodide symporter) dans des modèles *in vitro* and *in vivo* ».

Activités d'enseignement

Depuis 2011 : Maitre de Conférences en Biochimie à l'Université de Bourgogne

2010-2011 : cours de présentation de la recherche clinique et des CIC – Master Management Opérationnel et International des Industries des SantE - MOI²SE option **Pharmacie** Industrielle, Responsable : Sylvette HUICHARD, Dijon

2009-2010 : **ATER** à mi-temps dans la **section 64** à l'université de Franche-Comté : 33 h de travaux pratiques dans le module C2i (L3 Biologie), 34,5 h de travaux pratiques dans le module Méthodologies en biologie moléculaire (L3 Biologie), 27 h de travaux pratiques dans le module de Biochimie (L1 chimie), 18 h de travaux pratiques dans le module d'enzymologie (L3 Biologie), 16 h de travaux pratiques dans le module Génétique Moléculaire (L3 Biologie) et 5 h de travaux dirigés dans le module Biosphère Biomolécules.

2008-2009 : **ATER** à mi-temps dans la **section 66** à l'Université de Nice Sofia-Antipolis : 60 h de travaux pratiques dans le module Biologie Cellulaire Animale (L1 sciences de la vie), mise en place d'un module cytométrie de flux (cours, TP) pour la licence professionnelle biotechnologies, 12 h de travaux dirigés sur l'outil informatique dans le cadre de cette même licence).

2007-2008 : cours de 2h sur la cytométrie de flux dans le cadre de la licence professionnelle biotechnologies option génie biologique, microscopie, qualité, Direction : le Pr Robert Marsault, à la Faculté des Sciences de Nice.

Encadrement de Recherche

2003-2011 : encadrement, pendant mon doctorat et mes expériences post-doctorales, de 3 **étudiants de BTS de Biochimie** de première et deuxième années (6 et 4 semaines respectivement), 4 étudiants d'**IUT Génie Biologique** (DUT Analyse Biologique et Biochimique) de deuxième année (2 mois), 2 étudiants de **Licence de Biochimie** (2 mois), ainsi que 2 **étudiants de M2.**

2011-2022 : encadrement de 2 étudiants en **thèse**, 1 étudiante en **diplôme EPHE**, 5 étudiants en **M2**, 3 étudiants en **M1**, 4 étudiants en **L2**, 2 étudiantes en **BTS**, 1 étudiante en **L1** et 1 élève **ingénieur**.

Travaux de recherche et Valorisation/Rayonnement

Travaux de recherche (liste à la fin du CV)

43 Publications à comité de lecture international, 20 Revues Générales, 1 ouvrage individuel et 8 chapitres d'ouvrage

Valorisation/Rayonnement

- **Organisation de congrès** : Congrès ENOR, OEPM, NutriOX, CFATG
- **Participation à des réseaux de recherche** : ENOR / Nutredox
- **Participation à des jurys** : Comité de suivi de thèse, membre de jury de thèse, de diplôme EPHE, membre de comité de concours IGR et MCU
- **Expertise de dossiers scientifiques** : Université de Bourgogne, ANR, Association ELA
- **Guest Editor :** Antioxidants, International Journal of Molecular Sciences, Molecules (https://www.mdpi.com/journal/ijms/special_issues/Cell_Death_ND_2)
- **Editorial Board & Topic editors :** International Journal of Molecular Sciences & International Journal of Molecular Sciences

-**Activité de reviewing** : Groupe MDPI : Cells, Antioxidants, Molecules, Cancers, Beverages, Nutrients, International Journal of Molecular Sciences, Materials, Marine Drugs ; Wiley : Lipids, British Journal of Pharmacology, British Journal of Pharmacology ; Taylor & Francis Group : Expert Opinion on Therapeutic Targets ; Elsevier : Journal of Steroid Biochemistry and Molecular Biology, Chemistry and Physics of Lipids, Steroids, Free Radical Biology & Medecine, Studies in Natural Products Chemistry, Chemistry and Physics of Lipids, Food and Chemical Toxicology, Biochemical Pharmacology, Redox Biology ; ACS Publications : Journal of Agricultural and Food Chemistry ; Mary Ann Liebert : Journal of Medicinal Food ; Frontiers : Frontiers Bioengineering

Publications

Publications – Articles *dans revues internationales à comité de lecture*

-Midaoui A, Ghzaiel I, Vervandier-Fasseur D, Ksila M, Zarrouk A, Nury T, Khallouki F, El Hessni A, Ouazzani Ibrahimi S, Latruffe N, Couture R, Kharoubi O, Brahmi F, Hammami S, Masmoudi-Kouki O, Hammami M, Ghrairi T, Vejux A, Lizard G. Saffron (crocus sativus L) : a source of nutrients for the health and for the treatment of neuropsychiatric and age-related diseases. Nutrients accepté

-Ghzaiel I, Zarrouk A, Nury T, Libergoli M, Florio F, Hammouda S, Ménétrier F, Avoscan L, Yammine A, Samadi M, Latruffe N, Biressi S, Levy D, Bydlowski SP, Hammami S, **Vejux A**, Hammami M, Lizard G. Antioxidant Properties and Cytoprotective Effect of *Pistacia lentiscus* L. Seed Oil against 7β-Hydroxycholesterol-Induced Toxicity in C2C12 Myoblasts: Reduction in Oxidative Stress, Mitochondrial and Peroxisomal Dysfunctions and Attenuation of Cell Death. ***Antioxidants (Basel)***. 2021 Nov 5;10(11):1772. doi: 10.3390/antiox10111772. PMID: 34829643; PMCID: PMC8615043.

- Lahmar A, Mathey A, Aires V, Elgueder D, **Vejux A**, Khlifi R, Sioud F, Chekir-Ghedira L, Delmas D. Essential Oils, *Pituranthos chloranthus* and *Teucrium ramosissimum*, Chemosensitize Resistant Human Uterine Sarcoma MES-SA/Dx5 Cells to Doxorubicin by Inducing Apoptosis and Targeting P-Glycoprotein. ***Nutrients.*** 2021 May 19;13(5):1719. doi: 10.3390/nu13051719. PMID: 34069490.

- Yammine A, Zarrouk A, Nury T, **Vejux A**, Latruffe N, Vervandier-Fasseur D, Samadi M, Mackrill JJ, Greige-Gerges H, Auezova L, Lizard G. Prevention by Dietary Polyphenols (Resveratrol, Quercetin, Apigenin) Against 7-Ketocholesterol-Induced Oxiapoptophagy in Neuronal N2a Cells: Potential Interest for the Treatment of Neurodegenerative and Age-Related Diseases. ***Cells***. 2020 Oct 23;9(11):2346. doi: 10.3390/cells9112346.

- Yammine A, Nury T, **Vejux A**, Latruffe N, Vervandier-Fasseur D, Samadi M, Greige-Gerges H, Auezova L, Lizard G. Prevention of 7-Ketocholesterol-Induced Overproduction of Reactive Oxygen Species, Mitochondrial Dysfunction and Cell Death with Major Nutrients (Polyphenols, ω3 and ω9 Unsaturated Fatty Acids) of the Mediterranean Diet on N2a Neuronal Cells. ***Molecules***. 2020;25(10):E2296. doi:10.3390/molecules25102296

-Nury T, Doria M, Lizard G, **Vejux A**. Docosahexaenoic Acid Attenuates Mitochondrial Alterations and Oxidative Stress Leading to Cell Death Induced by Very Long-Chain Fatty

Acids in a Mouse Oligodendrocyte Model. ***Int J Mol Sci***. 2020;21(2):E641. doi:10.3390/ijms21020641

- Sghaier R, Nury T, Leoni V, Caccia C, Pais De Barros JP, Cherif A, **Vejux A**, Moreau T, Limem K, Samadi M, Mackrill JJ, Masmoudi AS, Lizard G, Zarrouk A. Dimethyl fumarate and monomethyl fumarate attenuate oxidative stress and mitochondrial alterations leading to oxiapoptophagy in 158N murine oligodendrocytes treated with 7β-hydroxycholesterol. ***J Steroid Biochem Mol Biol.*** 2019 Jul 22;194:105432. doi: 10.1016/j.jsbmb.2019.105432

- Sghaier R, Zarrouk A, Nury T, Badreddine I, O'Brien N, Mackrill JJ, **Vejux A**, Samadi M, Nasser B, Caccia C, Leoni V, Moreau T, Cherkaoui-Malki M, Salhedine Masmoudi A, Lizard G. Biotin attenuation of oxidative stress, mitochondrial dysfunction, lipid metabolism alteration and 7β-hydroxycholesterol-induced cell death in 158N murine oligodendrocytes. ***Free Radic Res.*** 2019 May;53(5):535-561. doi: 10.1080/10715762.2019.1612891

- Sassi K, Nury T, Zarrouk A, Sghaier R, Khalafi-Nezhad A, **Vejux A**, Samadi M, Aissa-Fennira FB, Lizard G. Induction of a non-apoptotic mode of cell death associated with autophagic characteristics with steroidal maleic anhydrides and 7β-hydroxycholesterol on glioma cells. ***J Steroid Biochem Mol Biol***. 2019 Jul;191:105371. doi: 10.1016/j.jsbmb.2019.04.020

- Doria M, Nury T, Delmas D, Moreau T, Lizard G, **Vejux A**. Protective function of autophagy during VLCFA-induced cytotoxicity in a neurodegenerative cell model. ***Free Radic Biol Med***. 2019 Jun;137:46-58. doi: 10.1016/j.freeradbiomed.2019.04.016

- Meddeb W, Rezig L, Zarrouk A, Nury T, **Vejux A**, Prost M, Bretillon L, Mejri M, Lizard G. Cytoprotective Activities of Milk Thistle Seed Oil Used in Traditional Tunisian Medicine on 7-Ketocholesterol and 24S-Hydroxycholesterol-Induced Toxicity on 158N Murine Oligodendrocytes. ***Antioxidants (Basel)***. 2018 :19;7(7).

- Nury T, Sghaier R, Zarrouk A, Ménétrier F, Uzun T, Leoni V, Caccia C, Meddeb W, Namsi A, Sassi K, Mihoubi W, Riedinger JM, Cherkaoui-Malki M, Moreau T, **Vejux A**, Lizard G. Induction of peroxisomal changes in oligodendrocytes treated with 7-ketocholesterol: Attenuation by α-tocopherol. ***Biochimie***. 2018 ;153:181-202.

- Namsi A, Nury T, Hamdouni H, Yammine A, **Vejux A**, Vervandier-Fasseur D, Latruffe N, Masmoudi-Kouki O, Lizard G. Induction of Neuronal Differentiation of Murine N2a Cells by Two Polyphenols Present in the Mediterranean Diet Mimicking Neurotrophins Activities: Resveratrol and Apigenin. ***Diseases***. 2018 Jul 22;6(3).

- Bezine M, Maatoug S, Ben Khalifa R, Debbabi M, Zarrouk A, Wang Y, Griffiths WJ, Nury T, Samadi M, **Vejux A**, de Sèze J, Moreau T, Kharrat R, El Ayeb M, Lizard G. Modulation of Kv3.1b potassium channel level and intracellular potassium concentration in 158N murine oligodendrocytes and BV-2 murine microglial cells treated with 7-ketocholesterol, 24S-hydroxycholesterol or tetracosanoic acid (C24:0). ***Biochimie***. 2018 ; 153:56-69

-Badreddine A, Zarrouk A, Karym EM, Debbabi M, Nury T, Meddeb W, Sghaier R, Bezine M, **Vejux A**, Martine L, Grégoire S, Bretillon L, Prost-Camus E, Durand P, Prost M, Moreau T, Cherkaoui-Malki M, Nasser B, Lizard G. Argan Oil-Mediated Attenuation of Organelle Dysfunction, Oxidative Stress and Cell Death Induced by 7-Ketocholesterol in Murine Oligodendrocytes 158N. ***Int J Mol Sci***. 2017 ; 23;18(10).

-Bezine M, Debbabi M, Nury T, Ben Khalifa R, Samadi M, Cherkaoui-Malki M, Vejux A, de Sèze J, Moreau T, El Ayeb M, Lizard G. Evidence of K^+ homeostasis disruption in cellular dysfunctions triggered by 7-ketocholesterol, 24S-hydroxycholesterol, and tetracosanoic acid (C24:0) on 158N murine oligodendrocytes: enhancement of lipotoxicity by the universal Kv channel blocker, 4-aminopyridine. ***Chem Phys Lipids*. 2017 ;207(Pt B) : 135-150**

- Brahmi F, Hadj-Ahmed S, Zarrouk A, Bezine M, Nury T, Madani K, Chibane M, **Vejux A**, Andreoletti P, Boulekbache-Makhlouf L, Lizard G. Evidence of biological activity of Mentha species extracts on apoptotic and autophagic targets on murine RAW264.7 and human U937 monocytic cells. ***Pharm Biol.*** 2017 ; 55(1):286-293.

- Debbabi M, Nury T, Zarrouk A, Mekahli N, Bezine M, Sghaier R, Grégoire S, Martine L, Durand P, Camus E, **Vejux A**, Jabrane A, Bretillon L, Prost M, Moreau T, Ammou SB, Hammami M, Lizard G. (2016) Protective Effects of α-Tocopherol, γ-Tocopherol and Oleic Acid, Three Compounds of Olive Oils, and No Effect of Trolox, on 7-Ketocholesterol-Induced Mitochondrial and Peroxisomal Dysfunction in Microglial BV-2 Cells. ***Int J Mol Sci***. 25;17(12).

- Leoni V, Nury T, **Vejux A**, Zarrouk A, Caccia C, Moreau T, Lizard G. (2016) Mitochondrial dysfunctions and lipid anabolism modifications on 158N murine oligodendrocytes exposed to 7-ketocholesterol. ***J Steroid Biochem Mol Biol*** pii: S0960-0760(16)30077-2

- Nury T, Zarrouk A, Ragot K, Debbabi M, Riedinger JM, **Vejux A**, Moreau T, Aubourg P, Lizard G. (2016) 7-ketocholesterol is increased in the plasma of X-ALD patients and induces peroxisomal modifications on microglial cells: potential roles of 7-ketocholesterol in the physiopathology of X-ALD. ***J Steroid Biochem Mol Biol*** pii: S0960-0760(16)30094-2

- Zarrouk A, Nury T, Karym EM, **Vejux A**, Sghaier R, Gondcaille C, Andreoletti P, Trompier D, Savary S, Cherkaoui-Malki M, Debbabi M, Fromont A, Riedinger JM, Moreau T, Lizard G. (2016) Attenuation of 7-ketocholesterol-induced overproduction of reactive oxygen species, apoptosis, and autophagy by dimethyl fumarate on 158N murine oligodendrocytes. ***J Steroid Biochem Mol Biol*** pii: S0960-0760(16)30038-3

- Nury T, Zarrouk A, Mackrill JJ, Samadi M, Durand P, Riedinger JM, Doria M, **Vejux A**, Limagne E, Delmas D, Prost M, Moreau T, Hammami M, Delage-Mourroux R, O'Brien NM, Lizard G. (2015) Induction of oxiapoptophagy on 158N murine oligodendrocytes treated by 7-ketocholesterol-, 7β-hydroxycholesterol-, or 24(S)-hydroxycholesterol: Protective effects of α-tocopherol and docosahexaenoic acid (DHA; C22:6 n-3). ***Steroids***. 99(Pt B):194-203

- Nury T, Zarrouk A, **Vejux A**, Doria M, Riedinger JM, Delage-Mourroux R, Lizard G. (2014) Induction of oxiapoptophagy, a mixed mode of cell death associated with oxidative stress, apoptosis and autophagy, on 7-ketocholesterol-treated 158N murine oligodendrocytes: Impairment by α-tocopherol. ***Biochem Biophys Res Commun***. 446(3):714-9.

-Ragot K, Mackrill JJ, Zarrouk A, Nury T, Aires V, Jacquin A, Athias A, Barros JP, **Vejux A**, Riedinger JM, Delmas D, Lizard G. (2013) Absence of correlation between oxysterol accumulation in lipid raft microdomains, calcium increase, and apoptosis induction on 158N murine oligodendrocytes. ***Biochem Pharmacol***. 86(1):67-79

- Nury T, Samadi M, Varin A, Lopez T, Boumhras M, Riedinger JM, Masson D, **Vejux A**, Lizard G. (2013) Biological activities of the LXRα and β agonist, 4β-hydroxycholesterol, and of its isomer, 4αhydroxycholesterol, on oligodendrocytes: effects on cell growth and viability, oxidative and inflammatory status. ***Biochimie*** 95(3):518-30

- Pernodet N, Hermetet F, Adami P, **Vejux A**, Descotes F, Borg C, Adams M, Pallandre JR, Viennet G, Esnard F, Jouvenot M, Despouy G. (2012) High expression of QSOX1 reduces tumorogenesis, and is associated with a better outcome for breast cancer patients. ***Breast Cancer Res.*** 14(5):R136

- Zarrouk A, **Vejux A**, Nury T, El Hajj HI, Haddad M, Cherkaoui-Malki M, Riedinger JM, Hammami M, Lizard G. (2012) Induction of mitochondrial changes associated with oxidative stress on very long chain fatty acids (C22:0, C24:0, or C26:0)-treated human neuronal cells (SK-NB-E). ***Oxid Med Cell Longev***. 2012:623257

- Baarine M, Andréoletti P, Athias A, Nury T, Zarrouk A, Ragot K, **Vejux A**, Riedinger JM, Kattan Z, Bessede G, Trompier D, Savary S, Cherkaoui-Malki M, Lizard G. (2012) Evidence of oxidative stress in very long chain fatty acid--treated oligodendrocytes and potentialization of ROS production using RNA interference-directed knockdown of ABCD1 and ACOX1 peroxisomal proteins. ***Neuroscience.*** 213:1-18

-**Vejux A**, Montange T, Martine L, Zarrouk A, Riedinger JM, Lizard G. (2012) Absence of oxysterol-like side effects in human monocytic cells treated with phytosterols and oxyphytosterols. ***J Agric Food Chem***. 60(16):4060-6

-Vejux A, Guyot S, Montange T, Riedinger JM, Kahn E, Lizard G. (2009) Phospholipidosis and down regulation of the PI3K/PDK1/Akt signalling pathway are vitE inhibitable events associated with 7-ketocholesterol-induced apoptosis. ***J Nutr Biochem,*** 20(1):45-61

-Malvitte L, Montange T, **Vejux A,** Joffre C, Bron A, Creuzot-Garcher C, Lizard G. (2008) Activation of a Caspase-3-Independent Mode of Cell Death Associated with Lysosomal Destabilization in Cultured Human Retinal Pigment Epithelial Cells (ARPE-19) Exposed to 7β-Hydroxycholesterol. ***Curr Eye Res,*** 33(9):769-81

-Vejux A, Lizard G, Tourneur Y, Riedinger JM, Frouin F, Kahn E**.** (2007) Effects of caspase inhibitors (z-VAD-fmk, z-VDVAD-fmk) on Nile Red fluorescence pattern in 7-ketocholesterol-treated cells: investigation by flow cytometry and spectral imaging microscopy. ***Cytometry*** 71(8):550-62

-Vejux A, Kahn E, Ménétrier F, Montange T, Lherminier J, Riedinger JM, Lizard G**.** (2007) Cytotoxic oxysterols induce caspase-independent myelin figure formation and caspase-dependent polar lipid accumulation. ***Histochemistry and Cell Biology*** 127(6):609-24

-Malvitte L, Montange T, **Vejux A**, Baudouin C, Bron AM, Creuzot-Garcher C, Lizard G. (2007) Measurement of inflammatory cytokines by multicytokine assay in tears of glaucoma patients topically treated with chronic medications. ***Br. J. Ophthalmol*** 91(1):29-32.

-Kahn E, Menetrier F, **Vejux A**, Montange T, Dumas D, Riedinger JM, Frouin F, Tourneur Y, Brau F, Stoltz JF, Lizard G. (2006) Spectral imaging multiphoton microscopy analysis of CD36 expression with quantum dots 605 of untreated- and 7-ketocholesterol-treated human monocytic cells. ***Anal Quant Cytol Histol*** 28 :316-330.

-Prunet C, Montange T, **Vejux A,** Laubriet A, Rohmer JF, Riedinger JM, Athias A, Lemaire-Ewing S, Néel D, Petit JM, Steinmetz E, Brenot R, Gambert P, Lizard G. (2006) Multiplexed Flow Cytometric Analyses of Pro- and Anti-Inflammatory Cytokines in the Culture Media of

Oxysterol-Treated Human Monocytic Cells and in the Sera of Atherosclerotic Patients. ***Cytometry*** 69(5):359-373.

-Kahn E, **Vejux A**, Menetrier F, Maiza C, Hammann A, Sequeira-Legrand A, Frouin F, Tourneur Y, Brau F, Riedinger JM, Steinmetz E, Todd-Pokropek A, Lizard G. (2006) Analysis of CD36 expression on human monocytic cells and atherosclerotic tissue sections with quantum dots. Investigation by flow cytometry and spectral imaging microscopy. ***Anal Quant Cytol Histol*** 28(1):14-26.

-Lemaire-Ewing S, Prunet C, Monier S, Montange T, **Vejux A**, Berthier A, Bessède G, Corcos L, Gambert P, Néel D, Lizard G. (2005) Comparison of cytotoxic, pro-oxidant and pro-inflammatory characteristics of different oxysterols. ***Cell Biol Toxicol*** 21: 97-114.

-Berthier A, Lemaire-Ewing S, Prunet C, Montange T, **Vejux A**, Pais De Barros JP, Monier S, Gambert P, Lizard G, Néel D. (2005) 7-ketocholesterol induced apoptosis: involvement of several pro-apoptotic but also anti-apoptotic calcium-dependent transduction pathways. ***FEBS J*** 272: 3093-3104.

-**Vejux A**, Kahn E, Dumas D, Bessède G, Menetrier F, Athias A, Riedinger JM, Frouin F, Stoltz JF, Ogier-Denis E, Todd-Pokropek A, Lizard G. (2005) 7-Ketocholesterol favors lipid accumulation and colocalizes with Nile Red positive cytoplasmic structures formed during 7-ketocholesterol-induced apoptosis: Analysis by flow cytometry, FRET biphoton spectral imaging microscopy, and subcellular fractionation. ***Cytometry*** 64A(2):87-100.

-Kahn E, **Vejux A**, Dumas D, Montange T, Frouin F, Robert V, Riedinger JM, Stoltz JF, Gambert P, Todd-Pokropek A, Lizard G. (2004) FRET multiphoton spectral imaging microscopy of 7-ketocholesterol and nile red in U937 monocytic cells loaded with 7-ketocholesterol. ***Anal Quant Cytol Histol*** **26**(6): 304-313.

-Kahn E, **Vejux A,** Lizard G, Bessède G, Frouin F, Prunet C, Bernengo JC, Brau F, Todd-Pokropek A, Gambert P. (2004) Analysis of the fluorescence of monodansylcadavérine-positive cytoplasmic structures during 7-ketocholesterol-induced cell death. ***Anal Quant Cytol Histol*** **26**(1): 47-56.

-Hocquet D, Vogne C, El Garch F, **Vejux A**, Gotoh N, Lee A, Lomovskaya O, Plesiat P. (2003) MexXY-OprM efflux pump is necessary for an adaptive resistance of Pseudomonas aeruginosa to aminoglycosides. Antimicrob Agents Chemother. 47 : 1371-1375

Publications – Revues *dans revues internationales à comité de lecture*

-Charrière K, Ghzaiel I, Lizard G, **Vejux A**. Involvement of Microglia in Neurodegenerative Diseases: Beneficial Effects of Docosahexahenoic Acid (DHA) Supplied by Food or Combined with Nanoparticles. ***Int J Mol Sci***. 2021 Sep 30;22(19):10639. doi: 10.3390/ijms221910639. PMID: 34638979; PMCID: PMC8508587.

-Ghzaiel I, Sassi K, Zarrouk A, Nury T, Ksila M, Leoni V, Bouhaouala-Zahar B, Hammami S, Hammami M, Mackrill JJ, Samadi M, Ghrairi T, **Vejux A**, Lizard G. 7-Ketocholesterol: Effects on viral infections and hypothetical contribution in COVID-19. ***J Steroid Biochem Mol Biol.*** 2021 Jun 9;212:105939. doi: 10.1016/j.jsbmb.2021.105939.

- Nury T, Yammine A, Ghzaiel I, Sassi K, Zarrouk A, Brahmi F, Samadi M, Rup-Jacques S, Vervandier-Fasseur D, Pais de Barros JP, Bergas V, Ghosh S, Majeed M, Pande A, Atanasov A, Hammami S, Hammami M, Mackrill J, Nasser B, Andreoletti P, Cherkaoui-Malki M, **Vejux A**, Lizard G. Attenuation of 7-ketocholesterol- and 7β-hydroxycholesterol-induced oxiapoptophagy by nutrients, synthetic molecules and oils: potential for the prevention of age-related diseases. ***Ageing Res Rev.*** 2021 Mar 24:101324. doi: 10.1016/j.arr.2021.101324. PMID: 33774195. Co-corresponding auteur

-**Vejux A**, Ghzaiel I, Nury T, Schneider V, Charrière K, Sghaier R, Zarrouk A, Leoni V, Moreau T, Lizard G. Oxysterols and multiple sclerosis: Physiopathology, evolutive biomarkers and therapeutic strategy. ***J Steroid Biochem Mol Biol***. 2021 Mar 5;210:105870. doi: 10.1016/j.jsbmb.2021.105870. PMID: 33684483. Co-corresponding auteur

- Nury T, Zarrouk A, Yammine A, Mackrill JJ, **Vejux A**, Lizard G. Oxiapoptophagy: a type of cell death induced by some oxysterols [published online ahead of print, 2020 Jun 24]. ***Br J Pharmacol***. 2020;10.1111/bph.15173. doi:10.1111/bph.15173 *Co-corresponding auteur*

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