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EDUCATION & WORK EXPERIENCE

2020-	Postdoctoral fellow, Montreal Neurological Institute & McGill Centre for the Convergence of Health and Economics Multidisciplinary research in neuroimaging, genetics, and environment Supervisors: Alain Dagher, MD & Laurette Dubé, PhD
2013-2019	PhD student, McGill University Integrated Program in Neuroscience (IPN) Dissertation: "Inhibitory regulation of plasticity across the lifespan in the rat primary auditory cortex" Supervisor: Étienne de Villers-Sidani, MD
2012-2013 05/2013-08/2013 01/2013-04/2013 09/2012-12/2012	IPN Rotation Program, McGill University Molecular biology of the mouse visual system Frederic Charron, PhD Electrophysiology of the auditory cortex in aging rats Étienne de Villers-Sidani, MD Magnetoencephalography in epilepsy Eliane Kobayashi, MD, PhD
2011-2012	Clinical research fellow, Hospital Universitario UANL, Monterrey, Mexico Supervisor: Marco Díaz-Torres, MD
2010-2011	Social Service (research internship), Instituto Nacional de Neurología y Neurocirugía 'Manuel Velasco Suárez', Mexico City Supervisors: Mario Alonso-Vanegas, MD & Luisa Rocha, MD, PhD
2004-2010	Medicine, Universidad Autónoma de Nuevo León (UANL), Monterrey, Mexico
2007-2010	Lecturer on Cell and tissue biology, UANL School of Medicine

HONORS & AWARDS

2020	Manulife Prize for the Promotion of Active Health (\$22,500 CAD), McGill Centre for the Convergence
	of Health and Economics
2019	C Nance Common Neuroscience Award (\$400 CAD), McGill University
2018	IPN Star Award (\$1,000 CAD), McGill University
2014-2018	CIHR Vanier Canada Graduate Scholarship (Number 4 of 158 finalists; \$150,000 CAD)
2014	Programme de Bourses d'Excellence pour Étudiants Étrangers. FRQNT - Gouvernement du Québec
	(Number 1 of 13 finalists; \$75,000 CAD). Declined
2014	Faculty of Medicine DFW (\$5,500 CAD), McGill University
2014	Graduate Excellence Award (\$1,000 CAD), McGill University
2013	Richard Murphy Travel Award (\$1,500 CAD), Montreal Neurological Institute
2013	CRBLM Travel Award (\$750 CAD), Centre for Research on Brain, Language and Music
2013	Society for Neuroscience Annual Meeting
	Abstract selected for press release in an extended lay version
2012-2017	CONACYT-I2T2 Graduate Scholarship (\$60,000 USD)
2012	10 th European Congress on Epileptology
	Scientific Committee Travel Bursary (\$2,000 EUR)
2012-2013	Best poster selection IPN Graduate Scholarship (\$20,000 CAD), McGill University
2012-2013	IPN Recruitment Award (\$5,000 CAD), McGill University
2012	Youth Merit Award, LXXII Legislature of Nuevo León
2010-2011	Research scholarship (\$36,500 MXN), National Council for Science and Technology (CONACYT)
2010-2011	Research scholarship (\$50,500 MAIN), National Council for Science and Technology (CONACTT)

2010	Excellence Bursary (\$10,000 MXN), Ministry of Education of Mexico
2010	Certificate of Outstanding Performance in the Medical Licensing Examination
2010	Dean's Award for Academic Excellence (Summa Cum Laude), UANL
	1 st place in graduating class
2008	International Federation of Medical Students Associations (IFMSA)
	- UANL full scholarship: Clerkship in Pediatrics
	Aggia Sophia Children's Hospital, Athens, Greece
	- UANL full scholarship: Clerkship in Clinical Neurology
	Centre Hospitalier Universitaire, Poitiers, France
2004-2011	Undergraduate Scholarship (\$120,000 MXN), Telmex Foundation
2003	Mexico delegate, III Iberoamerican Seminar on Adolescence and Youth.
	Lima, Peru, May 13-16 th
2003	Bronze Award, XV Asian Pacific Mathematics Olympiad
2003	First place, XVII National Mathematics Olympiad, Guanajuato, Mexico
2002	Third place, XVI National Mathematics Olympiad, Colima, Mexico
2001	Third place, XV National Mathematics Olympiad, Oaxtepec, Mexico

PUBLICATIONS

Peer-reviewed journal articles (19 total; 8/1 first/second author; * denotes equal contributors)

- [19] Cisneros-Franco JM*, Voss P, Kang P, Thomas ME, Coté J, Ross K, Gaudreau P, Rudko DA, Rosa-Neto P, de Villers-Sidani É. "PET imaging of perceptual learning-induced changes in the aged rodent cholinergic system". Front Neurosci DOI: 10.3389/fnins.2019.01438
- [18] Thomas ME, Lane CP, Chaudron YJM, Cisneros-Franco JM, de Villers-Sidani É. "Modifying the adult rat tonotopic map with sound exposure produces pitch discrimination deficits that are recovered with training", J Neurosci (accepted)
- [17] Cisneros-Franco JM, de Villers-Sidani É. "Reactivation of critical period plasticity in adult auditory cortex through chemogenetic silencing of parvalbumin-positive interneurons". Proc Natl Acad Sci USA 10.1073/pnas.1913227117
- [16] Cisneros-Franco JM, Ouellet L, Kamal B, de Villers-Sidani É. "A brain without brakes: reduced inhibition is associated with enhanced but dysregulated plasticity in the aged rat auditory cortex". eNeuro 21 August 2018, 5(4) ENEURO.0051-18.2018; DOI: https://doi.org/10.1523/ENEURO.0051-18.2018
- [15] **Cisneros-Franco JM**, de Villers-Sidani É. "Bidirectional control of risk-seeking behavior by the basolateral amygdala". eNeuro 2018. DOI:10.1523/eneuro.0168-18.201
- [14] Guercio GD, Thomas ME, Cisneros-Franco JM, Voss P, Panizzutti R, de Villers-Sidani É. "Improving cognitive training for schizophrenia using neuroplasticity enhancers: Lessons from decades of basic and clinical research". Schizophr Res 2018 doi: 10.1016/j.schres.2018.04.028
- [13] Thomas ME, Friedman NHM, Cisneros-Franco JM, Ouellet L, de Villers-Sidani É. "The prolonged masking of temporal acoustic inputs with noise drives plasticity in the adult rat auditory cortex". Cereb Cortex. 2018 Jan 30. doi: 10.1093/cercor/bhy009
- [12] Voss P, Thomas ME, Cisneros-Franco JM, de Villers-Sidani É. "Dynamic brains and the changing rules of neuroplasticity: implications for learning and recovery", Front Psychol. 2017 Oct 4;8:1657. doi: 10.3389/fpsyg.2017.01657. eCollection 2017
- [11] Voss P, Thomas M, Chou YC, Cisneros-Franco JM, Ouellet L, de Villers-Sidani É. "Pairing cholinergic enhancement with perceptual training promotes recovery of age-related changes in rat auditory cortex", Neural Plast. 2016;2016:1801979. doi: 10.1155/2016/1801979. Epub 2015 Dec 29.
- [10] Rocha L, Alonso-Vanegas MA, Martínez-Juarez IE, Orozco-Suárez S, Escalante-Santiago D, Feria-Romero IA, Zavala-Tecuapetla C, Cisneros-Franco JM, Buentello-García RM, Cienfuegos J. "GABAergic alterations in neocortex of patients with pharmacoresistant temporal lobe epilepsy can explain the comorbidity of anxiety and depression: the potential impact of clinical factors", Front Cell Neurosci. 2015 Jan 5;8:442
- [9] Cisneros-Franco JM*, Díaz-Torres MA*, Rodríguez-Castañeda JB, Martínez-Silva A, Gutiérrez-Herrea MA, San-Juan D. "Impact of the implementation of the AAN epilepsy quality measures on the medical records in a University Hospital", BMC Neurol. 2013 Aug 28:13:112.
- [8] Alonso-Vanegas MA*, **Cisneros-Franco JM***, Castillo-Montoya C, Martínez-Rosas AR, Gómez-Pérez ME, Rubio-Donnadieu F. "Self-reported quality of life in pharmacorresistant temporal lobe epilepsy: correlation with clinical variables and memory evaluation", Epileptic Disord. 2013 Sep;15(3):263-71.
- [7] Cisneros-Franco JM. "Farewell", Med Univ 2012; 14(54):52

- [6] Rocha L, Alonso-Vanegas M, Villeda-Hernández J, Mújica M, Cisneros-Franco JM, López-Gómez M, Zavala-Tecuapetla C, Frías-Soria CL, Segovia-Vila J, Borsodi A. "Dopamine abnormalities in the neocortex of patients with temporal lobe epilepsy", Neurobiol Dis. 2012 Jan;45(1):499-507.
- [5] Alonso-Vanegas MA*, Cisneros-Franco JM*, Otsuki T. "Surgical management of cavernous malformations presenting with drug resistant epilepsy" Front Neurol. 2012 Jan 3;2:86.
- [4] Tamez-Pérez HE, Gómez-de-Osio MD, Tamez-Peña AL, Quintanilla-Flores DL, **Cisneros-Franco JM**. "DPP-4 inhibitors in the treatment of hyperglycemia induced by chronic use of steroids", Rev Endocrinol Nutr 2011;19(3):102-10
- [3] Herbas-Rocha M, Cisneros-Franco JM, Aguilar-Estrada RL, Buentello-García RM, Alonso-Vanegas MA "Cholinergic deafferentation syndrome: new entity reported", Arch Neurocien (Mex) 2011;16(Supl-II):92-95
- [2] Buentello-García RM, Martínez-Rosas AR, Cisneros-Franco JM, Alonso-Vanegas MA "Foreign accent syndrome: a case report", Arch Neurocien (Mex) 2011;16(3):167-169
- [1] Bahena-García AL, Tamez-Pérez HE, Sánchez-Sánchez LM, Hernández-Coria MI, Quintanilla-Flores DL, **Cisneros-Franco JM**, Palacios-Saucedo G, Escudero-Rendón AJ. "*Tumor size is not associated with postoperative pituitary hormonal deficiencies in children with craniopharyngioma*", Rev Endocrinol Nutr 2011;19(2):58-61

Book chapters (1 total; 1 first author)

[1] **Cisneros-Franco JM***, Voss P*, Thomas ME, de Villers-Sidani É. "Critical periods of brain development". Chapter in the Handbook of Clinical Neurology, Elsevier (accepted)

<u>Submitted/in preparation</u> (3 total; 2/1 first/senior author)

- [3] Cisneros-Franco JM, Thomas ME, Regragui I, Lane C, Ouellet L, de Villers-Sidani É. "Parvalbumin-positive cell manipulation accelerates the rate of learning but impairs end performance". (in preparation)
- [2] Diaz-Torres MA, Buzo-Jarquin EG, Rodriguez-Martinez AC, de Leon-Altamira DL, Padilla-Rivas G, Castillo-Torres SA, Chavez-Luevanos BE, Olivas-Reyes JEG, Cisneros-Franco JM. "Determinants of quality of life in Mexican patients with drug resistant epilepsy". Neurologia (submitted November 2019)
- [1] Cisneros-Franco JM, Thomas ME, de Villers-Sidani É. "Risky decision-making in health and disease: insights from research in neuroeconomics". Wiley Interdiscip Rev Cogn Sci (submitted July 2019)

<u>Conference proceedings / Published abstracts</u> (21 total; 9 first author)

- [21] Cisneros-Franco JM, Regragui I, Thomas ME, de Villers-Sidani É. "Effects of pharmacogenetic modulation of auditory cortical inhibition on the acquisition and consolidation of learning", poster at CRBLM research day; May 13, 2019; Montreal, OC. Canada.
- [20] Thomas ME, Cisneros-Franco JM, Drudik K, de Villers-Sidani É. "Modification of the adult rat tonotopic map through passive sound exposure impairs performance on a tone discrimination task", poster at CRBLM research day; May 13, 2019; Montreal, QC, Canada.
- [19] Thomas ME, **Cisneros-Franco JM**, Badrinarayanan S, Drudik K, de Villers-Sidani É. "*Modification of the adult rat tonotopic map through passive sound exposure impairs performance on a tone discrimination task*", **poster** at 6th International Conference on Auditory Cortex; September 10-15, 2017; Banff, AB, Canada.
- [18] **Cisneros-Franco JM**, Kang P, Thomas, ME, Cote J, Rosa-Neto P, de Villers-Sidani É. "*PET imaging of auditory training-induced changes in the aged cholinergic system*", *poster* at 6th International Conference on Auditory Cortex; September 10-15, 2017; Banff, AB, Canada.
- [17] Thomas M*, Cisneros-Franco JM*, Ouellet L, de Villers-Sidani É. "Modulating auditory cortical plasticity through passive exposure to amplitude-modulated noise", poster at Neuroscience 2015; October 17-21, 2015; Chicago, IL, USA.
- [16] **Cisneros-Franco JM***, Thomas M*, de Villers-Sidani É. "The effects of aging and noise exposure on adaptation to repetitive stimuli in AI", poster at TDT Symposium on Advances and Perspectives in Auditory Neurophysiology; November 14, 2014; Washington, DC, USA.
- [15] Miredin K, Holman C., Cisneros-Franco M, de Villers-Sidani É. "Training induced dynamic filtering of auditory distractors in the rat primary auditory cortex", poster at McGill IPN Retreat; September 18-19, 2014; Montreal, QC, Canada.
- [14] Cisneros-Franco M, de Villers-Sidani É. "Enhanced but dysregulated experience-dependent plasticity in the aged brain due to reduced inhibition", poster at Neuroscience 2013; November 9-13, 2013; San Diego, CA, USA; poster at CRBLM research day; November 22, 2013; Université du Québec à Montréal, Montreal, QC, Canada
- [13] Cisneros-Franco JM, Lina JM, Grova C, Kobayashi E. "Time Frequency Analysis of Ictal MEG signals using Wavelet-based Maximum Entropy of the Mean (wMEM)", poster at 30th International Epilepsy Congress; June 23-27, 2013; Montreal, QC, Canada.
- [12] de Villers-Sidani É, Kamal B, Miredin K, Holman C, Cisneros-Franco JM. "Adaptive auditory training increases connectivity between A1 and frontal cortical fields in the aged brain", poster at ESCoNS Meeting; March 15-17, 2013; Los Angeles, CA, USA.
- [11] Rodríguez-Castañeda JB, Martínez-Silva A, Rodríguez-Rosales YE, Díaz-Torres MA, Cisneros-Franco JM. "Prevalence of anxiety and mood disorders in the epilepsy clinic of a University Hospital", poster at 2012 Annual Meeting, Mexican Chapter of the International League Against Epilepsy; Oaxaca, OAX, Mexico.

- [10] Mata-Mendoza MP, Cisneros-Franco JM, Martínez-Rosas, AR, Alonso-Vanegas MA, Rocha LL. "Dopamine receptors in neocortex of patients with temporal lobe epilepsy: correlations with memory disturbances", poster at 10th European Congress on Epileptology; September 30-October 4, 2012; London, UK.
- [9] **Cisneros-Franco JM**, Gutierrez-Herrera MA, Rodríguez-Castañeda JB, Martínez-Valenciano JM, Huerta-Esquivel LL, González-Garza JL, Díaz-Torres MA. "Optimizing patient care and medical education through AAN epilepsy quality measures in a University Hospital", poster at National Congress of Clinical Neurosciences/XXXIV AMEINNN meeting; May 16th-19th, 2012; poster at 10th European Congress on Epileptology; September 30-October 4, 2012; London, UK.
- [8] Tamez-Perez H, Quintanilla-Flores D, Hernandez Coria M, Cisneros-Franco J, Tamez-Peña A, Proskauer-Peña S. "Thyrotropinoma. A rare case report of hyperthyroidism", poster at European Society of Endocrinology ICE/ECE (May 5-9, 2012). Endocrine Abstracts 29 P1524
- [7] **Cisneros-Franco JM**, Alonso-Vanegas MA, Rocha L. "Benzodiazepine autoradiography in Temporal Neocortex of Refractory Epilepsy Patients: Clinical correlations", oral presentation at XXI Mexican Congress of Neurological Surgery (July 16-22, 2011), oral presentation at XXVI National Congress on Biomedical Research (September 22-24, 2011), poster at the 65th Annual Meeting, American Epilepsy Society (December 2-6, 2011).
- [6] Feria-Romero IA, Orozco-Suarez SA, Nettel-Rueda B, Guinto-Balanzar G, Castellanos-Pallares G, Felix-Espinoza I, Villeda-Hernandez J, Cisneros-Franco JM, Alonso-Vanegas MA, Grijalva-Otero I. "Gene expression of specific markers related to mitosis, apoptosis, DNA repairing, angiogenesis and stem cells, in low- and high-grade gliomas", poster at Neuroscience 2011; November 12-16, 2011; Washington, DC, USA.
- [5] Cisneros-Franco JM, Martinez-Rosas AR, Gomez-Perez ME, Alonso-Vanegas MA. "Quality of life in temporal lobe epilepsy: clinical and neuropsychological correlations", oral presentation at XXI Mexican Congress of Neurological Surgery; July 16-22, 2011; Acapulco GRO, Mexico, poster at 29th International Epilepsy Congress; August 28-September 1, 2011; Rome, Italy; poster at XXVI National Congress on Biomedical Research; September 22-24, 2011; Monterrey, NL, Mexico.
- [4] Alonso-Vanegas MA, Cisneros-Franco JM. "Cholinergic deafferentation syndrome: a new clinical entity reported", poster at XXI Mexican Congress of Neurological Surgery; July 16-22, 2011; Acapulco, GRO, Mexico.
- [3] Frias-Soria CL, Alonso-Vanegas MA, **Cisneros-Franco JM**, Zavala-Tecuapetla C, Rocha L. "Opioid receptor distribution in human cortex of patients with mesial temporal lobe epilepsy", **poster** at International Congress of Pharmacology; May 16-20, 2011; Mexico, DF, Mexico.
- [2] Zavala-Flores LM, Benavides-Huerta M, Gallegos-Arguijo DA, **Cisneros-Franco JM**, Juarez-Gaviño AL, Peña-Reyes LA, Saucedo-Cardenas O. "*Therapeutic DNA delivery: assessment of a murine model of neurodegenerative diseases*", **poster** at I Research Seminar "Invest"; September 23, 2008; Universidad Autónoma de Nuevo León; Monterrey, NL, Mexico.
- [1] Velazquez-Gauna SE, Cisneros-Franco JM, Alcaraz-Couret P, Sepulveda-Saavedra J, Ballesteros-Elizondo R. "Evaluación Morfológica de Células Peritoneales de Ratón Intoxicado con Peroxisomicina A-1 por Vía Intraperitoneal" (Morphological evaluation of Peritoneal Cells after Intraperitoneal infusion of Peroxisomycin A-1 in mice), poster at 7th International Congress of Medical Students; May 18-19, 2007; Universidad Autónoma de Nuevo León; Monterrey, NL, Mexico.

OTHER RESEARCH-RELATED ACTIVITIES

Ad-hoc reviews for journals

Medicina Universitaria, Elsevier, Mexico (1); Journal of Neuroscience, Society for Neuroscience, USA (1); Cell Reports, Cell Press, USA (1)

Clinical Trials

- [2] SP954-VERSA: An open-label, multicenter, multinational study of lacosamide as first add-on antiepileptic drug treatment in subjects with partial-onset seizures. Sub-investigator.
- [1] A0081194: A randomized, double-blinded, placebo-controlled, parallel group, multi-center trial of pregabalin controlled release formulation as adjunctive therapy in adults with partial onset seizures. Sub-investigator.

INVITED TALKS & SEMINARS

- [12] "Inhibition and the plasticity versus stability dilemma". Neurobiology & Behaviour Retreat, Department of Biology, McGill University. Montreal, QC, May 2020 (Invited talk)
- [11] "Inhibition and plasticity in the auditory cortex: the role of sensory experience, learning, and aging". Cognition and Circuits Seminar Series, Montreal Neurological Institute. Montreal, QC, Jan 2019 (Seminar series)
- [10] "Regulation of plasticity in the young and aged auditory cortex". Retreat of the Integrated Program in Neuroscience. McGill University. Montreal, QC, Sep 2016 (Invited talk)

- [9] "Can there be too much plasticity in the brain?". Cognition and Circuits Seminar Series, Montreal Neurological Institute. Montreal, QC, Dec 2014 (Seminar series)
- [8] "Brain plasticity in the auditory cortex: the effects of environment, learning and aging". Centro de Investigación y Desarrollo en Ciencias de la Salud. Monterrey, NL, Mexico, Aug 2014 (Keynote)
- [7] "Plasticity in the aging brain. UABC School of Medicine. Tijuana, BC, Mexico, Nov 2013 (Invited talk)
- [6] "My first research experiences". XXVII National Congress of Medical Research, Monterrey, NL, Mexico, Oct 2013 (Invited talk)
- [5] "Proposal for the establishment of an epilepsy surgery program". Hospital Universitario UANL, Monterrey, NL, Mexico, Feb 2012 (Neurology Grand Rounds)
- [4] "Neurodevelopment and Plasticity". Center for Pediatric Neuro-rehabilitation, Mexicali, BC, Mexico, Oct 2011 (Invited talk)
- [3] "Quality of life in temporal lobe epilepsy". Cognition and Behavior Unit, Instituto Nacional de Neurología y Neurocirugía, Mexico, Jun 2011 (Invited talk)
- [2] "Stroke: diagnosis and initial management". State Association of General and Family Physicians, Toluca, EM, Mexico, May 2011 (Invited talk)
- [1] "Music and Neuroscience". Tiempo School of Music, Mexico City, May 2011 (Invited talk)

TEACHING EXPERIENCE

2009-2010	Internal Medicine Department
	Practical instructor
2008-2009	University Center of Diagnostic Imaging
	Practical instructor
2007-2008	Physical examination and history taking
	Practical instructor
2005-2010	Histology Department
2005-2007	Teaching assistant
2007-2010	Lecturer

EXTRACURRICULAR ACTIVITIES

2017-	Contributor and Editor, <u>Useful Science</u> .
2015	Mentor, McGill University Staff-student Mentoring Program.
2014	Half-Marathon finisher, Démi-marathon de Montréal
2014-2015	Officer of Student well-being, Graduate Students Association for Neuroscience
2014	Mentor, Mitacs Globalink Research Internship program for undergraduate students
2013-2014	Montreal Neurological Institute Representative, Graduate Students Association for Neuroscience
2013	Fundraiser (\$ 2,530 CAD) and bike rider, The Ride to Conquer Cancer. A 230km ride from Montreal
	to Quebec City in benefit of the Segal Cancer Center, Jewish General Hospital of Montreal. See
	http://alturl.com/ie86w
2013-2017	International Buddy Program, McGill University International Student Services
2013-2015	Volunteer facilitator for workshops, McGill University Leadership Training Program
2013-2014	Rotaract Club of Downtown Montreal
2013-	Buddy Program, Graduate Student Association for Neuroscience
2012-	Mission Cerveau (BrainReach) Sharing the fun of science in francophone elementary schools from
	challenged neighborhoods.
2014-15	Head of the BrainReach High School committee
2014-15	Presenter, École secondaire Mont-Royal, Montréal, QC
2013-14	Presenter, École primaire Notre-Dame-des-Neiges, Montréal, QC

2013-14	Elementary school committee member. Development of new materials; translation of new and existing
	materials to French
2012-13	Presenter, École primaire du Petit-Chapiteau, Montréal, QC
2012-	English-Spanish-French translator & reviewer, TED Open Translation Project. For a complete list of
	translations, see: http://www.ted.com/profiles/1433182/translations
2011	Organizing committee. IV Mexican Congress on Adolescent and Youth Health
	Mexico City, August 4-7 th
2010-2011	Clinical Volunteer, "MedFest: Healthy Athletes". Novartis Mexico
2008-2009	Student representative, UANL University Council
2007-2008	Academic Affairs Officer, UANL Medical student association
2006-2009	Student groups for research in Medicine ('GESTIMED'), UANL School of Medicine
2005	Youth Forum coordinator. I Mexican Congress on Adolescent and Youth Health
	Oaxaca, March 9-12 th
2003	Youth Forum coordinator. III Workshops for Adolescent Health
	Coatzacoalcos, Veracruz, Mexico
2002	Youth Forum coordinator. II Workshops for Adolescent Health
	Coatzacoalcos, Veracruz, Mexico
2001	Youth Forum coordinator. I Workshops for Adolescent Health
	Coatzacoalcos, Veracruz, Mexico

LANGUAGES:

<u>Spanish</u>: Native language
<u>English</u>: TOEFL iBT, score 111 out of 120. April 16th, 2011

Medical English: Theory and practice (200 hrs). UANL School of Medicine, 2008-2009

<u>French</u>: Diplôme d'Études en Langue Française (DELF) niveau B2. Ministère de l'Èducation Nationale, 2008 & 2017