

Curriculum Vitae

GODIN Juliette

IGBMC, Institute of Genetics and Molecular and Cellular Biology
UMR CNRS/Uds 7104, INSERM U1258

Academic carrier

2016	Tenure-Trach Assistant professor , CRCN INSERM
Since July 2015	Group leader ATIP/avenir , IGBMC, Strasbourg, France
2010-2015	Post Doctoral fellow , University of Liège, GIGA neurosciences, Belgium
2005-2010	PhD student , Institut Curie, Orsay, France
2004-2005	Master , Institut Curie, Orsay, France

Diplomas

2017	HDR 'habilitation à diriger des recherches' , University of Strasbourg
2009	PhD in molecular and cellular neurobiology, university Paris XI
2005	Master in cell biology and development, Paris XI
2004	Engineering Degree in biochemistry and biotechnology INSA of Lyon

Fellowships and awards

2019	Prix Wallach - Académie d'Alsace des Sciences, Lettres et Arts
2019 - 2023	ANR PRCI TempoCorticoDev– Coordinator
2019	IDEX- Contrats doctoraux, University of Strasbourg
2018-2022	ANR PRCE DyrkDOWN – partner
2018-2021	ANR PRC NEDD4L-MCD – partner
2018-2020	Research grant from Fondation Jérôme Lejeune
2017	Phenomin & Infrafrontier grants for generation of 2 mouse models
2016	IDEX grant (commission de la recherche), University of Strasbourg
2015	Research grant from Fondation Fyssen
2014	Laureate of ATIP/Avenir award for starting PI – INSERM – France
2015	Installation grant – Labex
2014	ANR Young Researcher program (declined)
2014	Research grant from FNRS
2014-2015	Post-doctoral fellowship from FNRS – Belgium
2012-2014	Post-doctoral fellowship from Marie Curie Action – FP7 -2010-IEF
2011-2012	Post-doctoral long term fellowship from EMBO – ALTF-1031-2010
2011	Research grant from Ulg/FNRS
2010	Research grant for young scientist from University of Liège - Belgium
2010- 2011	Post-doctoral fellowship from FRM - France

Research activities

Since 2015 :	Regulation of cortical development in health and disease <i>1/ Centrosome, Microtubules associated proteins and corticogenesis</i> <i>2/ tRNAs, keys drivers of neuronal fate acquisition?</i>
2010-2015:	Neurobiology of cerebral cortex (GIGA neuroscience-Laurent Nguyen) <i>1/ p27kip1: a key player for division and migration in the developing cortex</i> <i>2/ Control of cortical neurons migration by MicroRNAs</i> <i>3/ Role of Elongator in the molecular control of cortical neurogenesis</i>

2005-2010 : **Huntington Disease (HD): Intracellular dynamic and protein degradation as therapeutic targets** (Curie Institute - Sandrine Humbert)
1/ *Role of huntingtin in mitotic spindle orientation and corticogenesis*
2/ *Beta-catenin degradation and neurotoxicity in HD*
3/ *Microtubules acetylation and intracellular transport in HD*

Publications

(ORCID: 0000-0001-6559-1065) #corresponding author *co-first author

Asselin L, Rivera Alvarez J, Heide S, Bonnet CS, Tilly P, Vitet H, Weber C, Bacino CA, Baranaño C, Chassevent A, Dameron A, Faivre L, Hanchard NA, Mahida S, McWalter K, Mignot C, Nava C, Rastetter A, Streff H, Thauvin-Robinet C, Weiss MM, Zapata G, Zwijnenburg PJG, Saudou F, Depienne C, Golzio C, Héron D, **Godin JD**[#]. (2020) *Mutations in the KIF21B kinesin gene cause neurodevelopmental disorders through imbalanced canonical motor activity* **Nat commun** 11; 2441

Ivanova EL, Gilet JG, Sulimenko V, Duchon A, Rudolf G, Runge K, Collins SC, Asselin L, Broix L, Drouot N, Tilly P, Nusbaum P, Vincent A, Magnant W, Skory V, Birling MC, Pavlovic G, **Godin JD**, Yalcin B, Héroult Y, Dráber P, Chelly J, Hinckelmann MV (2019) *TUBG1 missense variants underlying cortical malformations disrupt neuronal locomotion and microtubule dynamics but not neurogenesis*. **Nat commun** 13; 10(1):2129

Morelli G, Even A, Gladwyn-Ng I, Le Bail R, Shilian M, **Godin JD**, Peyre E, Hassan BA, Besson A, Rigo JM, Weil M, Brone B, Nguyen L (2018) *p27(Kip1) Modulates Axonal Transport by Regulating alpha-Tubulin Acetyltransferase 1 Stability*. **Cell Rep** 23: 2429-2442

Broix L, Asselin L, Silva CG, Ivanova EL, Tilly P, Gilet JG, Lebrun N, Jagline H, Muraca G, Saillour Y, Drouot N, Reilly ML, Francis F, Benmerah A, Bahi-Buisson N, Belvindrah R, Nguyen L, **Godin JD**, Chelly J, Hinckelmann MV (2018) *Ciliogenesis and cell cycle alterations contribute to KIF2A-related malformations of cortical development*. **Hum Mol Genet** 27(2):224-238

Kannan M, Bayam E, Wagner C, Rinaldi B, Kretz PF, Tilly P, Roos M, McGillevie L, Bar S, Minocha S, Chevalier C, Po C, Sanger Mouse Genetics P, Chelly J, Mandel JL, Borgatti R, Piton A, Kinnear C, Loos B, Adams DJ, Héroult Y, Collins SC, Friant S, **Godin JD**, Yalcin B. (2017) *WD40-repeat 47, a microtubule-associated protein, is essential for brain development and autophagy*. **PNAS** 114: E9308-E9317

Broix L, Jagline H, Ivanova E, Schmucker S, Drouot N, Clayton-Smith J, Pagnamenta AT, Metcalfe KA, Isidor B, Louvier UW, Poduri A, Taylor JC, Tilly P, Poirier K, Saillour Y, Lebrun N, Stemmlen T, Rudolf G, Muraca G, Saintpierre B, Elmorjani A, Deciphering Developmental Disorders s, Moise M, Weirauch NB, Guerrini R, Boland A, Olaso R, Masson C, Tripathy R, Keays D, Beldjord C, Nguyen L, **Godin JD**, Kini U, Nischke P, Deleuze JF, Bahi-Buisson N, Sumara I, Hinckelmann MV, Chelly J. *Mutations in the HECT domain of NEDD4L lead to AKT-mTOR pathway deregulation and cause periventricular nodular heterotopia*. **Nature Genetics** (2016) 48: 1349-1358

Borgs L, Peyre E, Alix P, Hanon K, Grobarczyk B, **Godin JD**, Purnelle A, Krusy N, Maquet P, Lefebvre P, Seutin V, Malgrange B, Nguyen L. *Dopaminergic neurons differentiating from LRRK2 G2019S induced pluripotent stem cells show early neuritic branching defects*. **Scientific Report** (2016) 6: 33377

Tielens S, Huysseune S, **Godin JD**, Chariot A, Malgrange B, Nguyen L. *Elongator controls cortical interneuron migration by regulating actomyosin dynamics*. **Cell Research** (2016) 26: 1131-1148

Laguesse S, Creppe C, **Godin JD**, Nguyen L. *[Unveiling the role of endoplasmic reticulum stress and unfolded protein response in cortical neurogenesis]*. **Medecine Science (Paris)** (2016) 32: 568-71

Godin JD[#], Creppe C, Laguesse S, Nguyen L. *Emerging Roles for the Unfolded Protein Response in the Developing Nervous System*. **Trends in Neuroscience** (2016) 39: 394-404

Tielens S, **Godin JD**, Nguyen L. *Real-time Recordings of Migrating Cortical Neurons from GFP and Cre Recombinase Expressing Mice*. **Current Protocol in Neuroscience** (2016) 74: 3 29 1-3 29 23

Laguesse S, Creppe C, Nedialkova DD, Prevot PP, Borgs L, Huysseune S, Franco B, Duysens G, Krusy N, Lee G, Thelen N, Thiry M, Close P, Chariot A, Malgrange B, Leidel SA, **Godin JD**[#], Nguyen L[#]. *A Dynamic Unfolded Protein Response Contributes to the Control of Cortical Neurogenesis*. **Developmental Cell** (2015) 35: 553-67

Volvert ML, Prevot PP, Close P, Laguesse S, Pirotte S, Hemphill J, Rogister F, Kruzy N, Sacheli R, Moonen G, Deiters A, Merckenschlager M, Chariot A, Malgrange B, **Godin JD**, Nguyen L. *MicroRNA targeting of CoREST controls polarization of migrating cortical neurons*. **Cell Report** (2014) 7: 1168-83

Godin JD, Nguyen L. *Novel functions of core cell cycle regulators in neuronal migration*. **Advances in experimental medicine and biology** (2014) 800: 59-74

Ben M'Barek K, Pla P, Orvoen S, Benstaali C, **Godin JD**, Gardier AM, Saudou F, David DJ, Humbert S. *Huntingtin mediates anxiety/depression-related behaviors and hippocampal neurogenesis*. **Journal of Neuroscience** (2013) 33: 8608-20

Godin JD^{*}, Thomas N^{*}, Laguesse S^{*}, Malinouskaya L, Close P, Malaise O, Purnelle A, Raineteau O, Campbell K, Fero M, Moonen G, Malgrange B, Chariot A, Metin C, Besson A, Nguyen L. *p27(Kip1) Is a Microtubule-Associated Protein that Promotes Microtubule Polymerization during Neuron Migration*. **Developmental Cell** (2012) 23: 729-44

Godin JD, Humbert S. *La huntingtine, une protéine clé du développement*. **Biofutur** (2012) 31:54-5

Godin JD, Humbert S. *Mitotic spindle: focus on the function of huntingtin*. **International Journal of Biochemistry and Cell Biology** (2011) 43: 852-6

Godin JD, Humbert S. *[Huntingtin, mitosis and cell fate]*. **Medecine Science (Paris)** (2011) 27: 126-8

Godin JD, Poizat G, Hickey MA, Maschat F, Humbert S. *Mutant huntingtin-impaired degradation of beta-catenin causes neurotoxicity in Huntington's disease*. **EMBO Journal** (2010) 29: 2433-45

Godin JD^{*}, Colombo K^{*}, Molina-Calavita M, Keryer G, Zala D, Charrin BC, Dietrich P, Volvert ML, Guillemot F, Dragatsis I, Bellaïche Y, Saudou F, Nguyen L, Humbert S. *Huntingtin is required for mitotic spindle orientation and mammalian neurogenesis*. **Neuron** (2010) 67: 392-406

Dompierre JP^{*}, **Godin JD**^{*}, Charrin BC, Cordelieres FP, King SJ, Humbert S, Saudou F. *Histone deacetylase 6 inhibition compensates for the transport deficit in Huntington's disease by increasing tubulin acetylation*. **Journal of Neuroscience** (2007) 27: 3571-83

Oral communications

- 2019: 6th summer school Labex **Transplantex**, Strasbourg, France.
Meeting **Brain malformations : a roadmap for future research**, Rehovot, Israel.
Annual meeting of **NGS-diagnostic network**, Paris, France.
- 2018: **NeuroMyoGene**, Lyon, France.
- 2017: **Max plank institute for biochemistry**, Munchen, Germany.
- 2016: **8th meeting of "club des belles souris"**, Strasbourg, France.
14th meeting of the DRN club (development of neuronal circuits), Paris, France.
9th meeting on Cilia, Flagella and Centrosomes, Strasbourg, France.
- 2015: **Tri-Regio Developmental and Stem Cell Biology Meeting**, Freiburg, Germany;
Spring meeting of the Belgian society for cell and developmental biology, Liège, Belgium.
- 2014: **IBDM**, Developmental biology institute of marseille, Luminy, France.
GIN, Grenoble institute for neuroscience, Grenoble, France.
- 2013: **EMBO fellow meeting**, Heidelberg, Germany;

Microtubule cytoskeleton in development and disease conference, Barcelona, Spain; **GIGA day**, Liège, Belgium.

Scientific and Institutional responsibilities

Organization of meetings: 3rd thematic workshop of the French society for neurosciences (2018), 'High resolution microscopy in living animals' symposium (2017&2018); Tri-Regio Developmental and Stem Cell Biology Meeting (2019, 2016).

Reviewer for Nature communication, Neuroscience, BMC biology, Fédération pour la recherche sur le cerveau, EMBO Journal, EMBO report, Scientific report, Progress in neurobiology.

Scientific head of the photonic imaging platform since January 2019.

Member of the **steering committee** of the IGBMC Imaging center;

Member of the scientific jury of the **Doctoral school** (MRT fellowships, 2017, 2028); Member of master comity of the **ImcBIO** graduate school (since 2018).

Member of the **executive board** of the **Neuropole** of Strasbourg (since 2018).

Creation of **NeuroDevNet**: network of 12 young teams interested in neurodevelopment.

Member of **thesis and HDR defense committee** as rapporteur (2019: University of Grenoble, University of Marseille, University PARIS 6; 2017 (HDR): University of Strasbourg) and invited member (2018, 2019: University of Strasbourg).