CURRICULUM VITAE – DR BINNAZ YALCIN
(last updated January 2021)

PERSONAL INFORMATION

First/last name	**Binnaz YALCIN**
Email	binnaz.yalcin@inserm.fr
Contact	INSERM Unit 1231 GAD Laboratory 15 boulevard Maréchal De Lattre de Tassigny 21070 Dijon, France
Phone	+33 (0)3 80 39 66 60
Date of birth	20th July 1977
Nationality	French
Marital Status	Married, 3 children

EDUCATION

2014	**Accreditation to Direct Research (HDR)** University of Strasbourg, France Title: "*Genetics of brain disorders using mouse models*"
2007	**Doctor of Philosophy (D.Phil)** University of Oxford, Exeter College, United Kingdom Title: "*Quantitative Trait Locus mapping in animal models*"
2001	**Bachelor of Science** (with Honors) Nottingham Trent University, United Kingdom
2000	**Two-year Diploma** (Informatics) University of Clermont-Ferrand, France
1998	**Two-year Diploma** (Biology) University of Clermont-Ferrand, France

CURRENT POSITION

2019-present	**Tenured Assistant Professor** University of Bourgogne Franche-Comté, France

PREVIOUS RESEARCH POSITIONS

2016-2019	**Junior Group Leader** Institute of Genetics and Molecular and Cellular Biology, Strasbourg, France
2013-2016	**SNSF Ambizione Fellow** Center for Integrative Genomics, Lausanne, Switzerland
2011-2013	**EMBO Postdoctoral Fellow** Center of Integrative Genomics, Lausanne, Switzerland
2007-2011	**Wellcome Trust Research Fellow** Wellcome Center for Human Genetics, Oxford, United Kingdom

SELECTED FELLOWSHIPS, AWARDS AND APPOINTMENTS

2020	MRT Award for PhD Fellowship (V. Panasenkava), ranked first (not taken up) University of Bourgogne Franche-Comté, France
2020	European Research Council ERC - ranked A - selected for step 2 (not funded)
2019-2021	European Commission Solve-RD - first seeding grant award
2019	INSERM permanent researcher position in Genetics (ranked first)
2019	INSERM permanent position in Neurosciences (classed sixth, not taken up)
2019	Mary Lyon Award for an early-stage independent female researcher
2018-2021	ANR Young Researcher Laureate, University of Strasbourg, France
2016-2019	Chair of Excellence Award, University of Strasbourg, France
2016	Gutenberg Prize, University of Strasbourg, France
2015	Tremplin Award for female researchers, University of Lausanne

2014	Rector's Conference of the Swiss Universities Travel Award, Switzerland
2013	Korner Travelling Fellowship Fund, University of Sussex, United Kingdom
2013-2016	SNSF Ambizione Fellowship, University of Lausanne, Switzerland
2011-2014	ANR Postdoctoral Researcher Laureate, University of Strasbourg
2011-2013	EMBO Long-Term Postdoctoral Fellowship, University of Lausanne
2008-2011	Wellcome Trust Postdoctoral Fellowship, University of Oxford, UK
2008	Academic Merit Award, University of Oxford, United Kingdom
2002-2007	Wellcome Prize D.Phil Studentship Award, University of Oxford, UK

CURRENT GRANTS

2021-2023	European Regional Development Fund, Equipment (HREM), 60K EUR
2020-2022	European Regional Development Fund, Equipment (MEA), 91K EUR
2020-2021	INFRAFRONTIER biomedial infrastructure grant, 20K EUR
2020-2022	Jérôme Lejeune Foundation grant, 24K EUR
2019-2021	Solve-RD seeding grant for model organism investigator, 20K EUR
2019-2021	INSERM start-up grant (ranked first), 44K EUR
2019-2021	GAD Laboratory start-up grant, 100K EUR
2018-2021	ANR JCJC project grant, 250K EUR

PREVIOUS GRANTS (total raised > 2.5 million EUR; funds < 5K EUR not listed)

2017-2019	INFRAFRONTIER biomedial infrastructure grant, 60K EUR
2016-2019	Chair of Excellence, ANR LABEX-INRT start-up, 560K EUR
2015-2017	Regional GUTENBERG project grant, 50K EUR
2015-2017	Regional GUTENBERG installation grant, 10K EUR
2015-2016	Strasbourg University IDEX Equipment grant, 29K EUR
2015-2016	University of Lausanne Equal Opportunities grant, 25K CHF
2014-2015	Société Académique Vaudoise, Equipment grant, 10K CHF
2013-2016	Swiss National Science Foundation Ambizione start-up grant, 600K CHF
2012-2014	Jérôme Lejeune Foundation grant, 15K EUR
2011-2014	Agence Nationale de la Recherche (ANR) project grant, 505K EUR
2011-2013	EMBO Long-Term Fellowship, 150K CHF
2009-2012	Wellcome Trust project grant, 438K GBP
2001-2005	Wellcome Prize PhD Studentship, 90K GBP

CONSORTIA AND SCIENTIFIC SOCIETES

2020-2021	Nomination as President for the *IMGS*
2019-present	Ambassador, eLIFE Early Career Researchers Community
2018-present	Co-director "*International Research Consortium for the Corpus Callosum*"
2015-2019	Member "*IMGS - International Mammalian Genome Society*"
2011-2015	Member "*International Knockout Mouse Consortium*"
2007-2011	Member "*Collaborative Cross Consortium*"

COLLABORATIONS

2019-present	Prof A. Crosby, University of Exeter Medical School, United Kingdom
2019-present	Prof P. Agrawal, Boston Children's Hospital, United States
2019-present	Dr F. Prin, The Francis Crick Institute, United Kingdom
2019-present	Prof R. Sedlacek, BIOCEV/IMG, Prague, Czech Republi
2019-present	Prof S. Murray, JAX Laboratory, Bar Harbor, United States
2018-present	Dr F. Francis, University of Sorbonne, Paris, France
2018-present	Prof E. Sherr, University of California San Francisco, United States
2017-present	Prof C. Depienne (Institut für Humangenetik, Essen, Germany)
2017-present	Prof C. Tyler-Smith, Wellcome Sanger Institute, Hinxton, United Kingdom
2017-present	Prof M. Hurles, Wellcome Sanger Institute, Hinxton, United Kingdom

2016-present	Prof C. Webber, Dementia Research Institute, Cardiff, United Kingdom
2016-present	Prof J. Chelly, IGBMC, Strasbourg, France
2016-present	Dr J. Godin, IGBMC, Strasbourg, France
2012-present	Dr Y. Hérault, Mouse Clinical Institute, Strasbourg, France
2012-present	Prof A. Reymond, Center for Integrative Genomics, Switzerland
2011-present	Prof D. Adams, Wellcome Sanger Institute, Hinxton, United Kingdom

SELECTED TOP 5 PUBLICATIONS (full list see page 9)

2019

Collins SC, Mikhaleva A, Vrcelj K, Vancollie VE, Wagner C, Demeure N, Whitley H, Kannan M, Balz R, Anthony LFE, Edwards A, Moine H, White JK, Adams DJ, Reymond A, Lelliott CJ, Webber C and **Yalcin B**.
Large-scale neuroanatomical study uncovers 198 gene associations in mouse brain morphogenesis. **Nature Communications**.
This is the second main article from my laboratory, providing the largest study of mouse neuroanatomical phenotype genes and pathways to date and a wealth of new knowledge on the genetics of brain morphogenesis. It was selected as a featured article by the editors.

2017

Kannan M, Bayam E, Wagner C, Rinaldi B, Kretz PF, Tilly P, Roos M, McGillewie L, Bär S, Minocha S, Chevalier C, Po C, Chelly J, Mandel JL, Borgatti R, Piton A, Kinnear C, Loos B, Adams DJ, Hérault Y, Collins SC, Friant S, Godin JD and **Yalcin B**.
WD40-repeat 47, a microtubule-associated protein, is essential for brain development and autophagy. **PNAS**.
This is the first article from my laboratory that has demonstrated though this publication that it is equally capable of conducting original functional research.

2013

Simon M, Greenaway S, White J, Fuchs H, Gailus-Durner V, Sorg T, Wong W, Bedu E, Cartwright E, Dacquin R, Djebali S, Estabel J, Graw J, Ingham N, Jackson I, Lengeling A, Mandillo S, Marvel J, Meziane H, Preitner F, Puk O, Roux M, Adams D, Atkins S, Ayadi A, Becker L, Blake A, Brooker D, Cater H, Champy MF, Combe R, Danecek P, di Fenza A, Gates H, Gerdin AK, Golini E, Hancock J, Hans W, Hölter S, Hough T, Jurdic P, Keane T, Morgan H, Müller W, Neff F, Nicholson G, Pasche B, Roberson LA, Rozman J, Sanderson M, Santos L, Selloum M, Shannon C, Southwell, Tocchini-Valentini A, Vancollie V, Wells S, Westerberg H, Wurst W, Zi M, **Yalcin B***, Ramirez-Solis R*, Steel K*, Mallon AM*, Hrabé de Angelis M*, Hérault Y*, Brown S*. *Co-last author.
A comparative phenotypic and genomic analysis of C57BL/6J and C57BL/6N mouse strains. **Genome Biology**.
This is my first article as an independent researcher where I directed the genomic analysis of the study. It required considerable organization and management, and implied the day-to-day supervision of several members of the group.

2011

Yalcin B, Wong K, Agam A, Goodson M, Keane T, Gan X, Nellåker C, Goodstadt L, Nicod J, Bhomra A, Whitley H, Cleak J, Dutton R, Mott R, Adams D, Flint J.
Sequence based characterization of structural variation in the mouse genome. **Nature**.
This article features one of my postdoctoral projects, aiming at studying the genome architecture in the mouse. I was one of the key members of this international project for which I produced several publications, including an accompanying paper in Nature (Keane *et al.* 2011), cited more than 1000 times.

2004

Yalcin B, Willis-Owen SA, Fullerton J, Meesaq A, Deacon RM, Rawlins JNP, Copley RR, Morris AP, Flint J, Mott R.
Genetic dissection of a behavioural quantitative trait locus shows that *Rgs2* modulates anxiety in mice. **Nature Genetics**.
This article describes part of my PhD work. It was the first time that a quantitative trait gene was identified in behavioural genetics. My contribution was central, at an intellectual as well as technical level.

NEUROGEMM RESEARCH GROUP – CURRENT SUPERVISION ACTIVITIES

2016-present	S. Collins, Senior scientist, University of Bourgogne Franche-Comté, France
2019-present	S. Nguyen, Research Assistant, Dijon, France
2019-2023	C. Montillot, PhD student, University of Bourgogne Franche-Comté, France
2016-2021	P. Kretz, PhD student, University of Strasbourg, France (currently writing up)
2021	A. Brocard, MSc student, University of Bourgogne Franche-Comté, France
2021	A. Lahmar, MSc student, University of Bourgogne Franche-Comté, France
2021	Z. Allaoua, MSc student, University of Bourgogne Franche-Comté, France
2021	M. Dessolain, BSc student, University of Bourgogne Franche-Comté, France

PREVIOUS SUPERVISION ACTIVITIES

	Postdoctoral fellow
2017-2018	E. Bayam, IGBMC, Strasbourg, France (in collaboration with Dr J. Godin)
	Graduated PhD students
2012-2016	M. Kannan, University of Strasbourg, France
2013-2017	A. Mikhaleva, University of Lausanne, Switzerland
	Research Assistants (since 2016)
2016-2019	M.C. Fischer, IGBMC, Strasbourg, France
2016-2018	C. Wagner, IGBMC, Strasbourg, France
	Graduated MSc students (since 2016)
2020	M. Milhau, University of Bourgogne Franche-Comté, France
2020	B. Capi, University of Bourgogne Franche-Comté, France
2020	J. Roussey, University of Bourgogne Franche-Comté, France
2019	C. Montillot, University of Nice Sophia Antipolis, France (currently PhD)
2019	A. Da Costa, University of Bourgogne Franche-Comté, France
2018	M. Gaborit, University of Strasbourg, France (currently PhD)
2017	M. Kobler (Medical student), University of Strasbourg, France
2017	M. Meylan, University of Strasbourg, France (currently PhD)
2017	S. Ciscares-Velazquez, University of Strasbourg, France
2017	D. Gualberto, University of Strasbourg, France
2017	G. Leininger, University of Strasbourg, France
2016	P. Kretz, University of Strasbourg, France (currently PhD)
2016	N. Demeure (Engineer), University of Strasbourg, France (currently PhD)
2016	J. Delevoye, University of Strasbourg, France
2016	L. Durieux, University of Strasbourg, France (currently PhD)
	Graduated BSc students (since 2016)
2020	G. Fleury, University of Bourgogne Franche-Comté, France
2020	G. Boursier, University of Bourgogne Franche-Comté, France
2019	N. Yahiaoui, University of Strasbourg, France
2018	C. Bonnet, University of Poitiers, France (currently PhD)
2018	P. Hahn, University of Strasbourg, France
2018	M. Ossipenko, University of Strasbourg, France
2017	S. Lottiaux, University of Strasbourg, France
2016	D. Huynh, University of Strasbourg, France
2016	C. Casana, University of Strasbourg, France
2016	E. Ramos-Morales, University of Strasbourg, France (currently PhD)
	Graduated Intern students (since 2016)
2020	N. Kenani, University of Paris 18th, France
2019	E. Isturiz, Supbiotech, Paris, France
2019	N. Pigeonneau, University of Strasbourg, France
2017	E. Aguilar, University of Strasbourg, France
2016	M. Litt, University of Strasbourg, France
2016	S. Ott, University of Strasbourg, France
2016	L. Gagliardi, University of Strasbourg, France

Visiting International ERASMUS students (since 2016)

2018	G. Evyapan, PhD student, Turkey
2018	E. Makedona, BSc student, Greece
2017	A. Pathak, BSc student, India
2017	E. Mehmetoglu, BSc student, Turkey
2016	D. Kumruoglu, BSc student, Turkey

INVITED TEACHING ACTIVITIES

2012-present	Pasteur Institute, annual 2-hour lecture in Neurogenetics, Paris, France
2019	Broad audience lecture on *"Brain Development in Children"*, Dijon, France
2018	Next generation sequencing, Cambridge, United Kingdom
2016	ITMO School in Translational Research in Neurosciences, Bordeaux, France
2015	Workshop on Academic Career, University of Lausanne, Switzerland
2015	European Advanced School in Mouse Phenogenomics, Alsace, France
2013	Ecole Supérieure Biotechnologie Strasbourg, Genomics, France
2011	University of Lausanne, practical course in Molecular Biology, Switzerland
2001	4-months teaching in Genetics, European funded project, West Africa

INVITED CONFERENCES

2019	3rd Meeting Gene Expression and Epigenome, Strasbourg, France, **Talk**
2018	33rd International Mouse Genome Conference, USA, **Mary Lyon Award Talk**
2018	International Research Consortium on Corpus Callosum, California, USA, **Talk**
2017	Advancing Personalised Medicine with Animal Models, Athens, Greece, **Talk**
2017	2nd Functional annotation of genome-wide variants, Switzerland, **Talk**
2016	11th International Meeting on CNV and Genes in Autism, Troina, Italy, **Talk**
2016	5th International Mouse Phenotyping Consortium, Strasbourg, France, **Talk**
2013	6th Colloque Belles Souris, Montpellier, France, **Talk**
2005	11th International School on Neurogenetics, Bordeaux, France, **Talk**

SELECTED CONFERENCES

2020	3rd The Allied Genetics Conference, Washington D.C., USA, Poster (online)
2020	10th Assises de Génétique Humaine et Médicale, Tours, France, Poster
2019	Club Neuro-génétique Nancy, **Talk**
2019	69th American Society of Human Genetics, Houston, USA, Poster
2019	1st NeuroFrance International Meeting, Marseille, France, Poster
2018	1st Advances in Neurodevelopmental Disorders, Strasbourg, France, Poster
2017	31st International Mouse Genome Conference, Heidelberg, Germany, Poster
2017	50th European Society of Human Genetics, Copenhagen, Denmark, **Talk**
2016	1st Genomics of Brain Disorders, Hinxton, United Kingdom, Poster & **Talk**
2015	65th American Society of Human Genetics, USA, Poster & **Talk** (+ Award)
2015	17th International Cognitive Disorders Workshop, Strasbourg, France, **Talk**
2015	2nd Symposium Molecular Basis of Mental Disorder, Switzerland, Poster
2015	48th European Society of Human Genetics, Glasgow, Scotland, **Talk**
2015	2nd Gencodys Conference, Chania, Crete, **Talk**
2015	10th International Meeting on CNVs and Genes in Autism, Italy, **Talk**
2014	7th Personal Genomes: Discovery, Treatment & Outcomes, CSH, USA, **Talk**
2014	28th International Mouse Genome Conference, Maine, USA, **Talk**
2014	64th American Society of Human Genetics, San Diego, USA, Poster
2014	10th Neurogenetics Symposium, Strasbourg, France, **Talk**
2014	6th Meeting of the International Society for CSF Disorders, Bristol, UK, **Talk**
2013	1st Neurosciences Meeting, Dijon, France, **Talk**
2013	1st Gencodys Conference, Pathos, Cyprus, Poster
2012	11th Complex Trait Consortium Meeting, Pasteur Institute, Paris, France, **Talk**
2011	1st Mouse Genetics Conference, Washington D.C., USA, Poster

2010	5th Jacques Monod Conference on Cognition, Roscoff, France, Poster
2009	8th Complex Trait consortium Meeting, Manchester, United Kingdom, **Talk**
2007	2nd Genes and Behavior Meeting, Oxford, United Kingdom, Poster
2003	17th International Mouse Genome Conference, Braunschweig, Germany, **Talk**
2003	2nd Complex Trait Consortium Meeting, Oxford, United Kingdom, **Talk**

SELECTED SEMINARS

2020	MRC Institute of Metabolism, Cambridge, invited by Sadaf Farooqi (webinar)
2020	IRC5 genetic working group, invited by Elliott Sherr (webinar)
2017	Imagine, Paris, France
2016	GReD, Clermont-Ferrand, France
2016	Imagine, Paris, France
2015	Medical Research Council (MRC) Harwell, Oxfordshire, United Kingdom
2015	Wellcome Trust Sanger Institute, Cambridge, United Kingdom
2015	European Molecular Biology Laboratory (EMBL) Monterotondo, Rome, Italy

PEER REVIEW ACTIVITIES

	Editorial board member
2018-present	Frontiers in Genetics (Frontiers)
	Expert reviewer of journals
2020	Genes, Brain and Behaviour
2020	Molecular Genetics and Metabolism
2019	PLOS Genetics
2019	eLife
2019	Molecular Neurobiology
2019	Life Science Alliance
2019	Mammalian Genome
2018	Brain Research
2017	Human Mutation
2017	Progress in Neuropsychopharmacology and Biological Psychiatry
2017	International Journal of Neuropsychopharmacology
2016	PLOS One
2014	Genes, Genomes and Genetics
2014	BMC Genomics
2014	Nature
2014	Nucleic Acids Research
2013	Journal of Metabolomics and Systems
2012	BMC Genomics
2012	PLOS One
2012	BMC Research Notes
2011	Nature Genetics
2011	Trends in Genetics
	Expert reviewer of grants
2020	French Foundation for Medical Research Line-Pomaret
2018	IDEX Marseille
2016	Research Foundation Flanders
2015	French Foundation for Rare Diseases
2014	French Foundation for Rare Diseases
	Accreditation to Direct Research - HDR" committees
2017	Rapporteur, University of Strasbourg, France (J. Godin)
2015	Rapporteur, University of Pierre and Marie Curie, France (M. Groszer)
	PhD thesis committees
2020	Rapporteur, University of Tours, France (J. Halewa)
2020	Rapporteur, University of Strasbourg, France (L. Becker)

2019	Rapporteur, University of Sorbonne, France (G. Canali)
2019	Rapporteur, University of Strasbourg, France (J. Rivera-Alvarez)
2017	Rapporteur, Pasteur Institut, France (J. Zhang)
2019	Rapporteur, University of Strasbourg, France (L. Becker)
2017	Rapporteur, University of Strasbourg, France (S. Martin Lorenzo)
2017	Rapporteur, University of Strasbourg, France (L. Asselin)
2016	Rapporteur, University of Strasbourg, France (F. Mattioli)
2013	Rapporteur, University of Montpellier 1, France (S. Quesada)
2011	Examiner, University of Oxford, United Kingdom (R. Dutton)

OTHER MANAGEMENT AND INSTITUTIONAL RESPONSIBILITIES

2020	Organizer of a Symposium on Brain Imaging, INSERM Dijon (50 participants)
2018	Jury Master Cellular and Molecular Biology, University of Strasbourg, France
2018	Organizer of a Symposium on Statistics, Strasbourg, France (50 participants)
2017	Invited Chair, Human Disease Models, IMGC, Germany (150 participants)
2017	Jury Master Neuroscience, University of Strasbourg, France
2016	Jury Master Molecular Biology, University of Strasbourg, France

MEDIA OUTREACH

Online articles

2020 33rd international mammalian genome conference: meeting highlights "Yalcin's work provides an important resource for both the mouse and human genetics and neuroscience communities".
https://link.springer.com/article/10.1007/s00335-020-09830-8

2019 University of Strasbourg, France "Brain development: 198 essential genes identified"
http://www.recherche.unistra.fr/index.php?id=30518

2019 University of Bourgogne Franche-Comté, France "198 genes essential for brain development"
https://www.u-bourgogne.fr/non-categorise/brouillon-auto.html-40

2017 Advancing personalized medicine with animal models
D2.3_Report on 2nd INFRAFRONTIER Stakeholder Meeting-1.pdf

2017 Une année avec le CNRS en Alsace "Cognitive and intellectual disabilities are caused by genetic mutations"
https://www.alsace.cnrs.fr/sites/delegation_dr10/files/page/2020-08/2017_une-annee_VF.pdf

2017 Discovery of WDR47 gene essential for the development of the brain
http://www.igbmc.fr/society/actualite/261/

News feature Nature Communications

2019 https://www.nature.com/collections/mjkksldswr/content/jerome-staal

Blog posts

2019 Tweeter "Amazing effort from @YalcinBinnaz to look over 1500 mutant mouse lines to find 198 genes whose disruptions yield NeuroAnatomical Phenotypes" by Editors of Nature Communications.

2019 Wellcome Sanger Institute blog "The Biology of the Brain"
https://sangerinstitute.blog/2019/09/25/the-biology-of-the-brain/

2019 International Mouse Phenotyping Consortium "Study Uncovers 198 Genes Associated With Brain Morphogenesis in Mice"
https://www.mousephenotype.org/blog/2019/10/04/large-scale-study-uncovers-198-genes-associated-with-brain-morphogenesis-in-mice/

HCERES EVALUATION

2017	The High Council for the Evaluation of Research and Higher Education (HCERES) has scored my group as "**excellent to outstanding with great future prospects**".

CAREER BREAKS

2018-2019	6-month sick leave + 6-month maternity leave
2012-2013	6-month sick leave
2007-2008	6-month sick leave + 6-month maternity leave
2005-2006	6-month sick leave + 6-month maternity leave

PUBLICATIONS – DR BINNAZ YALCIN
(last updated January 2021)

LINKS

ORCID	https://orcid.org/0000-0002-1924-6807
Publons	https://publons.com/researcher/2199799/binnaz-yalcin/
Google scholar	https://scholar.google.fr/citations?user=RxYvYoQAAAAJ&hl=en

OVERVIEW OF PUBLICATIONS

Total publication	**33**
Original articles	**30**
Review articles	**3**
Corresponding/last authorships	**12**
First authorships	**9**
Invited authorships	**5**
H-index (Google scholar)	**20**
H-index (Web of Science)	**19**
i10 index (Google scholar)	**23**
Sum of the times cited (Web of Science)	**2995**
Sum of the times cited (Google scholar)	**4019**

Top science journals: *Cell*, *Nature*, *Nature Genetics*, *Nature Communications*

FULL PUBLICATION LIST

30 Original articles

2021

Jeanne M, Vuillaume ML, Ung DC, Vancollie VE, Wagner C, Collins SC, Vonwill S, Haye D, Chelloug N, Pfundt R, Kummeling J, Moizard MP, Marouillat S, Kleefstra T, **Yalcin B**, Laumonnier F, Toutain A. Haploinsufficiency of the HIRA gene located in the 22q11 deletion syndrome region is associated with abnormal neurodevelopment and impaired dendritic outgrowth. **Hum Genet**. 2021 Jan 8.

2020

Duncan AR, Vitobello A, Collins SC, Vancollie VE, Lelliott CJ, Rodan L, Shi J, Seman AR, Agolini E, Novelli A, Prontera P, Guillen Sacoto MJ, Santiago-Sim T, Trimouille A, Goizet C, Nizon M, Bruel AL, Philippe C, Grant PE, Wojcik MH, Stoler J, Genetti CA, van Dooren MF, Maas SM, Alders M, Faivre L, Sorlin A, Yoon G, **Yalcin B***, Agrawal PB*. Heterozygous Variants in KDM4B Lead to Global Developmental Delay and Neuroanatomical Defects. **Am J Hum Genet**. 2020 Dec 3;107(6):1170-1177.
*Co-corresponding author.

Liang ZS, Cimino I, **Yalcin B**, Raghupathy N, Vancollie VE, Ibarra-Soria X, Firth HV, Rimmington D, Farooqi IS, Lelliott CJ, Munger SC, O'Rahilly S, Ferguson-Smith AC, Coll AP, Logan DW. Trappc9 deficiency causes parent-of-origin dependent microcephaly and obesity. **Plos Genetics**. 2020 Sep 2;16(9):e1008916.

Milh M, Roubertoux P, Biba N, Chavany J, Spiga Ghata A, Fulachier C, Collins SC, Wagner C, Roux JC, **Yalcin B**, Félix MS, Molinari F, Lenck-Santini PP, Villard L. A knock-in mouse model for KCNQ2-related epileptic encephalopathy displays spontaneous generalized seizures and cognitive impairment. **Epilepsia**. 2020 May;61(5):868-878.

Gilet J, Ivanova E, Trofimova D, Rudolf G, Meziane H, Broix L, Drouot N, Courraud J, Skory V, Voulleminot P, Osipenko M, Bahi-Buisson N, **Yalcin B**,

Birling MC, Hinckelmann MV, Kwok BH, Allingham JS, Chelly J. Conditional switching of KIF2A mutation provides new insights into cortical malformations pathogeny. **Hum Mol Genet**. 2020 Jan 10.

2019 Collins SC, Mikhaleva A, Vrcelj K, Vancollie VE, Wagner C, Demeure N, Whitley H, Kannan M, Balz R, Anthony LFE, Edwards A, Moine H, White JK, Adams DJ, Reymond A, Lelliott CJ, Webber C, **Yalcin B**. Large-scale neuroanatomical study uncovers 198 gene associations in mouse brain morphogenesis. **Nature Communications**. 2019 Aug 1;10(1):3465.

Collins SC, Uzquiano A, Selloum M, Wendling O, Gaborit M, Osipenko M, Birling MC, **Yalcin B***, Francis F*. The neuroanatomy of Eml1 knockout mice, a model of subcortical heterotopia. **J Anat**. 2019 Sep;235(3):637-650.
*Co-last author

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**, Hérault Y, Dráber P, Chelly J, Hinckelmann MV. TUBG1 missense variants underlying cortical malformations disrupt neuronal locomotion and microtubule dynamics but not neurogenesis. **Nature Communications**. 2019 May 13;10(1):2129.

2018 Lilue J, Doran AG, Fiddes IT, Abrudan M, Armstrong J, Bennett R, Chow W, Collins J, Collins S, Czechanski A, Danecek P, Diekhans M, Dolle DD, Dunn M, Durbin R, Earl D, Ferguson-Smith A, Flicek P, Flint J, Frankish A, Fu B, Gerstein M, Gilbert J, Goodstadt L, Harrow J, Howe K, Ibarra-Soria X, Kolmogorov M, Lelliott CJ, Logan DW, Loveland J, Mathews CE, Mott R, Muir P, Nachtweide S, Navarro FCP, Odom DT, Park N, Pelan S, Pham SK, Quail M, Reinholdt L, Romoth L, Shirley L, Sisu C, Sjoberg-Herrera M, Stanke M, Steward C, Thomas M, Threadgold G, Thybert D, Torrance J, Wong K, Wood J, **Yalcin B**, Yang F, Adams DJ, Paten B, Keane TM. Sixteen diverse laboratory mouse reference genomes define strain-specific haplotypes and novel functional loci. **Nature Genetics**. 2018 Nov;50(11):1574-1583.

Collins SC, Wagner C, Gagliardi L, Kretz PF, Fischer MC, Kannan M, **Yalcin B***. A method for parasagittal sectioning for neuroanatomical quantification of brain structure in the adult mouse. **Current Protocols in Mouse Biology**. 2018
*Invited

2017 Kannan M, Bayam E, Wagner C, Rinaldi B, Kretz PF, Tilly P, Roos M, McGillewie L, Bär S, Minocha S, Chevalier C, Po C, Chelly J, Mandel JL, Borgatti R, Piton A, Kinnear C, Loos B, Adams DJ, Hérault Y, Collins SC, Friant S, Godin JD, **Yalcin B**. WD40-repeat 47, a microtubule-associated protein, is essential for brain development and autophagy. **Proc Natl Acad Sci U S A.** 2017 Oct 31;114(44):E9308-E9317.

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