CURRICULUM VITAE – DR BINNAZ YALCIN
(Last updated July 2024)

PERSONAL INFORMATION

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

2023-present	**Tenured Research Director** (INSERM DR2) in Neurosciences
	Center for Translational and Molecular Medicine, Dijon, France

PREVIOUS RESEARCH POSITIONS

2019-2023	**Senior Researcher** (INSERM CRCN) in Genetics
	University of Bourgogne Franche-Comté, France
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

2023-2027	ANR Researcher Laureate, University of Bourgogne Franche-Comté, France
2022-2023	Nominated member, Scientific Evaluation Committee, European Joint Programme on Rare Diseases
2022-2026	Nominated member INSERM Scientific Evaluation Board
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

2023-2027	ANR PRC project grant, 450K EUR
2023-2024	INSERM training grant, 15K EUR
2022-2024	ANER starting grant, 50K EUR
2022-2025	Indo-French Centre for the Promotion of Advanced Research, 195K EUR

PREVIOUS GRANTS (total raised > 3 million EUR; funds < 10K EUR not listed)

2022-2023	INSERM training grant, 15K EUR
2018-2023	ANR JCJC project grant, 250K EUR
2021-2023	European Regional Development Fund, Equipment grant (HREM), 130K EUR
2020-2022	European Regional Development Fund, Equipment grant (MEA), 91K EUR
2020-2021	INSERM International Research Project, 10K 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
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

2023-present	Member *"ALBA Network"*
2022-2028	Member "*IMGS - International Mammalian Genome Society*"
2022-present	Member of the French Scientific Interest group on neurodevelopmental disorders and autism (GIS Autism)
2022-present	Scientific Advisor Panel Member of the PhD School (University of Milan)
2022-2028	Member *"ISTT – International Society for Transgenic Technologies"*
2022-2023	Member *"CFATG – French Autophagy Club"*
2022-2023	Member *"FENS - Federation of European Neuroscience societies"*
2022-2023	Member *"ESHG – European Society of Human Genetics"*

2022-2025	Nomination as Secretariat for the *IMGS*
2020-2021	Nomination as President for the *IMGS*
2019-present	Ambassador, eLIFE Early Career Researchers Community
2018-present	Board "*IRC5 - 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

2023-present	Prof P. Callier, Inserm 1231, Dijon University Hospital, France
2023-present	Prof P. Garnier, Inserm 1093, University of Bourgogne, France
2023-present	Prof I. Del Pino Pariente, Instituto de Neurociencias, Alicante, Spain
2023-present	Prof C. Demougeot, University of Franche-Comté, France
2023-present	Prof D. Li, Children's Hospital of Philadelphia, USA
2023-present	Prof E. Bhoj, Children's Hospital of Philadelphia, USA
2023-present	Prof E. Eichler, Department of Genome Sciences, Seattle, USA
2023-present	Prof Z. Tumer, Department of Clinical Medicine, Denmark
2023-present	Prof T. Araki, National Center of Neurology and Psychiatry, Japan
2022-present	Prof L. Vissers, Donders Institute for Brain, Nijmegen, The Netherlands
2022-present	Prof A. Schaffer, Department of Genetics, Cleveland, USA
2022-present	Prof A. Lalande, University of Bourgogne Franche-Comté, France
2022-present	Dr S. Vincent, IGBMC, Strasbourg, France
2022-present	Dr H. Schmidt, IGBMC, Strasbourg, France
2022-present	Prof M. Scala, University of Genoa, Genova Italy
2022-present	Dr N. Navarro, EPHE, University of Bourgogne Franche-Comté, France
2022-present	Prof S. Minocha, Indian Institute of Technology Delhi, India
2021-present	Prof M. Guttman, University of California, USA
2021-present	Prof T. Keane, European Bioinformatics Institute, United Kingdom
2021-present	Dr G. Santen, Leiden University Medical Center, The Netherlands
2021-present	Dr M. C. Malicdan, National Institutes of Health, USA
2021-present	Prof D. Picketts, University of Ottawa, Canada
2021-present	Prof S. Shifman, Department of Genetics, Jerusalem, Israel
2020-present	Prof F. Kooy, University of Antwerp, Belgium
2020-present	Dr T. Haack, University of Tubingen, Germany
2020-present	Prof R. Brambilla, University of Cardiff, United Kingdom
2020-present	Dr F. Laumonnier, University of Tours, France
2019-present	Prof A. Crosby, University of Exeter Medical School, United Kingdom
2019-present	Prof P. Agrawal, Boston Children's Hospital, USA
2019-present	Dr F. Prin, The Francis Crick Institute, United Kingdom
2019-present	Prof R. Sedlacek, BIOCEV/IMG, Prague, Czech Republic
2019-present	Prof S. Murray, JAX Laboratory, Bar Harbor, USA
2018-present	Dr F. Francis, University of Sorbonne, Paris, France
2018-present	Prof E. Sherr, University of California San Francisco, USA
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 C. Golzio, 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

NEUROGEMM EMERGING TEAM – CURRENT SUPERVISION ACTIVITIES

2016-present	Stephan Collins, Senior scientist
2023-2025	Siwar Ben Ayache, Postdoc
2023-2026	Emilia Skutunova, PhD student
2023-2026	Ayushma, PhD Student (in collaboration with Prof S. Minocha)
2024-2025	Beyza Zayim, MSc Student

PREVIOUS SUPERVISION ACTIVITIES

	Postdoctoral fellow
2017-2018	Efil Bayam, IGBMC, Strasbourg, France (in collaboration with Dr J. Godin)
	Graduated PhD students
2019-2023	Charlotte Montillot, University of Bourgogne-Franche-Comté (01/09/2023)
2016-2021	Perrine Kretz, University of Strasbourg, France (10/03/2021)
2012-2016	Meghna Kannan, University of Strasbourg, France (23/11/2016)
2013-2017	Anna Mikhaleva, University of Lausanne, Switzerland (02/10/2017)
	Engineer (since 2016)
2021-2022	Clémence Alibert, Inserm U1231 Dijon (currently PhD NeuroMyoGène)
	Research Assistants (since 2016)
2023-2024	Charline Parisis, University of Franche-Comté, France, France
2022-2023	Lucile Tonneau, University of Bourgogne-Franche-Comté, France
2020-2022	Sylvie Nguyen, CHU Dijon, France (collaboration Pr C. Thauvin)
2017-2018	Emeline Aguilar, University of Strasbourg, France
2016-2019	Marie-Christine Fischer, IGBMC, Strasbourg, France
2016-2018	Christel Wagner, IGBMC, Strasbourg, France
2016-2017	Léo Gagliardi, University of Strasbourg, France (Syngenta)
2015-2016	Anais Duret
2015-2016	Helen Whitley (Medical student)
2014-2016	Rebecca Balz
	MSc students (since 2016)
2024	Rania Farsi, University of Burgundy, Molecular and Cell Biology
2024	Hanzala Daud, University of Burgundy, Innovative Drugs
2024	Falilatou Saka, University of Burgundy, Health and Biology
2024	Taiabur Rahman, University of Burgundy, France (colla Prof A. Lalande)
2023	Juan Cisneros Jacome, University of Burgundy, France (colla Prof A.Lalande)
2022	Emilia Skutunova, University of Montpellier (PhD)
2021	Benazir Peerally, University of Sorbonne, France
2021	Zineddine Allaoua, University of Bourgogne Franche-Comté (Novolyze)
2021	Adam Lahmar, University of Bourgogne Franche-Comté, France
2021	Axel Brocard, University of Bourgogne Franche-Comté, France (Provepharm)
2020	Maxence Milhau, University of Bourgogne Franche-Comté (Leyton, Canada)
2020	Bryan Capi, University of Bourgogne Franche-Comté, France
2020	Jules Roussey, University of Bourgogne Franche-Comté, France
2019	Charlotte Montillot, University of Nice Sophia Antipolis (postdoc)
2019	Axel Da Costa Sousa, University of Bourgogne Franche-Comté, France (CHU)
2018	Marion Gaborit, University of Strasbourg (currently PhD INCI Strasbourg)
2017	Mathilde Kobler (Medical student), University of Strasbourg, France
2017	Maxime Meylan, University of Strasbourg (PhD 2022 Sorbonne University)
2017	Sebastian Ciscares-Velazquez, University of Strasbourg, France
2017	David Gualberto, University of Strasbourg, France (Merck)
2017	Gilles Leininger, University of Strasbourg, France
2016	Perrine Kretz, University of Strasbourg, France (PhD 2021)
2016	Nestor Demeure, University of Strasbourg (PhD 2021 ENS Paris-Scalay)
2016	Jonathan Delevoye, University of Strasbourg, France
2016	Laura Durieux, University of Strasbourg (PhD 2021 LNCA Strasbourg)

2016	Somasekhar Jayaram (currently PhD Geneva)
	BSc students (*Awarded the UNIL Summer Undergraduate Research Programme)
2024	Aliénor Vaudene, Cellular Biology and Physiology, Dijon University (MSc)
2024	Chloé Ngon, Cellular and Molecular Biology, University of Cergy Paris
2024	Nikol Nikolova, Biology, University of Montpellier
2024	Salma Zarfaoui, Biology and Health, University of Paris-Est-Creteil, France
2023	Ismail Salah, University of Bourgogne Franche-Comté, France (Medicine)
2023	Manon Lescutier, University of Bourgogne Franche-Comté, France (MSc)
2022	Rim Elmahjri, University of Bourgogne Franche-Comté, France
2022	Marion Bouiller, University of Bourgogne Franche-Comté, France
2022	Lola Tanneur, Magistère Européen de Génétique, Paris Diderot
2021	Juliette Delmas, University of Bourgogne Franche-Comté, France
2021	Juliette Henna, University of Bourgogne Franche-Comté, France
2021	Salama Bou, University of Bourgogne Franche-Comté, France
2021	Flavie Theveny, University of Bourgogne Franche-Comté, France
2021	Suzie Lebee, University of Bourgogne Franche-Comté, France
2021	Marie Thirion, University of Bourgogne Franche-Comté, France
2021	Marity Dessolain, University of Bourgogne Franche-Comté, France
2020	Gael Fleury, University of Bourgogne Franche-Comté, France
2020	Gaspard Boursier, University of Bourgogne Franche-Comté, France
2019	Nawal Yahiaoui, University of Strasbourg, France (MSc Institut Pasteur)
2018	Clara Bonnet, University of Poitiers, France (currently PhD Institut Curie)
2018	Paula Hahn, University of Strasbourg (currently PhD Karolinska Institutet)
2018	Maria Ossipenko, University of Strasbourg, France (MSc 2021)
2017	Sophie Lottiaux, University of Strasbourg, France (Clinical Manager Lyon)
2016	Dylan Huynh, University of Strasbourg, France (MSc 2019)
2016	Clara Casana Rico, University of Strasbourg, France (AbbVie Medical Affairs)
2016	Elizabeth Ramos-Morales, University of Strasbourg, France (PhD 2021)
2015	Luc Reymond (EPFL Lausanne)
2015	Sarah Arthur* (PhD 2021 Canada)
2015	Amicie De Pierrefeu (PhD 2018 CEA Paris, now at Ipsen)
	Intern students
2024	Nida Yardim, Biology Engineering, University of Clermont-Ferrand II, France
2024	Maelle Tbatou, University of Burgundy, France
2024	Eloise Domet, University of Burgundy, France
2023	Emeline Richter, University of Technology of Troyes, France
2023	Océane Musset, University of Technology of Troyes, France
2023	Elisa Mischler, University of Bourgogne Franche-Comté, France (MSc)
2022	Khadija Bayou, University of Bourgogne Franche-Comté, France (MSc)
2021	Maylis Joly, University of Bourgogne Franche-Comté, France
2020	Narjisse Kenani, University of Paris 18th, France
2019	Elisia Isturiz, Supbiotech, Paris, France (Veracyte IO)
2019	Nina Pigeonneau, University of Strasbourg, France
2016	Mariane Litt, University of Strasbourg, France (Transgene)
2016	Saranya Ott, University of Strasbourg, France
2015	Kevin Navarro (Manager Account, Lausanne)
	Student Assistants
2015	Mélina Gailly
2015	Isabelle Herr
2015	Amandine Delay
2015	Livia Chrast (Medicine)
2015	Lisa Haerri
	Visiting International ERASMUS students (*Awarded the IGBMC Summer Research Internship Programme)

2018	Gulsah Evyapan, PhD student, Turkey
2018	Emina Makedona*, BSc student, Greece
2017	Ananya Pathak*, BSc student, India (Engineer New Delhi and Dublin)
2017	Ezgi Mehmetoglu, BSc student, Turkey
2016	Durna Kumruoglu, BSc student, Turkey

NB: When known, the current professional status of students is indicated in bracket.

INVITED TEACHING ACTIVITIES

2024	28th Knowledge Day, Dijon, France (two short talks)
2023	Broad audience lecture on *"Biology of Cohen syndrome"*, Clermont, France
Since 2021	University of Bourgogne Franche-Comté, Neuroanatomy MSc, Besancon
Since 2020	University of Bourgogne Franche-Comté, Neurosignalisation MSc, Dijon
Since 2012	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

2024	European Molecular and Cellular Cognition Society meeting, Vienna, **Talk**
2024	16th VPS13 Forum, Germany, **Talk** (online)
2023	ERN-ITHACA Board Meeting, Dublin, **Talk**
2023	36th French Association of Histotechnology Congress, Dijon, **Talk** (+2 Posters)
2023	4th NeuroFrance Meeting, Lyon, **Talk** (cancelled)
2022	20th Anniversary ICS, Strasbourg, France, **Talk**
2021	International Research Consortium on Corpus Callosum, Brazil, **Talk** (online)
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

2024	20th Neural Networks Development Club, Paris, **Talk** (by E. Skutunova)
2024	Medical Imaging Conference, San Diego, USA, **Talk** (by J. Cisneros)
2024	12th Assises de Génétique Humaine et Médicale, Paris, France, Posters (x2)
2023	36th International Mouse Genome Conference, Tsukuba, Japan, **Talk**
2022	35th International Mouse Genome Conference, Vancouver, Canada, Posters (x5)
2022	International Research Consortium on Corpus Callosum, USA, **Talk** (online)
2022	FENS, Paris, France (presented by C. Montillot and S. Nguyen), Posters (x2)
2022	10th Scientific Days on Autophagy, CFATG10, Besancon, France, Poster
2022	54th European Society of Human Genetics, Vienna, Austria, Poster and **Talk**
2022	11th Assises de Génétique Humaine et Médicale, Rennes, France, **Talk**
2022	11th Assises de Génétique Humaine et Médicale, Rennes, France, Posters (x3)
2021	10th Anniversary IMPC, Prague, Poster (online)

2021	54th European Society of Human Genetics, Poster (online) (**Best Poster Award**)
2021	3rd NeuroFrance Meeting, Strasbourg (presented by P. Kretz), Poster (online)
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	2nd 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 CNV 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/INVITED SEMINARS

2024	Paris-Saclay Institute of Neuroscience, invited by François Rouyer
2023	National Center of Neurology, Kodaira, Japan, invited by Toshiyuki Araki
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	iGReD, Clermont-Ferrand, France, invited by Krzysztof Jagla
2016	Imagine, Paris, France
2015	Medical Research Council (MRC) Harwell, UK, invited by Steve Brown
2015	Wellcome Trust Sanger Institute, Cambridge, United Kingdom
2015	EMBL Monterotondo, Rome, Italy, invited by Cornelius Gross

PEER REVIEW ACTIVITIES

	Editorial board member
2018-present	Frontiers in Genetics (Frontiers)
	Expert reviewer of journals
2024	NeuroImage
2024	Computational and Structural Biotechnology Journal
2023	Journal of Medical Genetics
2023	Mammalian Genome
2023	Journal of Clinical Medicine
2023	Neurobiology of Disease

2023	Frontiers in Neuroscience
2023	Cell Reports
2023	Biomolecules
2022	Brain Research
2022	Genes, Genomes and Genetics
2022	Frontiers Cell and Developmental Biology
2021	Theranostics
2021	Journal of Pediatric Genetics
2020	Genes, Brain and Behaviour
2020	Molecular Genetics and Metabolism
2020	Molecular Neurobiology
2019	PLoS Genetics
2019	eLife
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
2023	Sorbonne University Emergence Grant
2023-present	European Joint Programme on Rare Diseases
2022-present	MRC
2020-present	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
2023	Pasteur Institute, Paris, France (M. Bourdon)
2023	University of Strasbourg, France (A. Rasheed)
2021	University of Paris-Saclay, France (A. Cazals)
2021	University of Paris, France (C. Maillard)
2021	University of Strasbourg, France (A. Rasheed)
2020	University of Tours, France (J. Halewa)
2020	University of Strasbourg, France (L. Becker)
2019	University of Sorbonne, France (G. Canali)
2019	University of Strasbourg, France (J. Rivera-Alvarez)
2017	Pasteur Institute, Paris, France (J. Zhang)
2017	University of Strasbourg, France (S. Martin Lorenzo)
2017	University of Strasbourg, France (L. Asselin)

2016	University of Strasbourg, France (F. Mattioli)
2013	University of Montpellier 1, France (S. Quesada)
2011	University of Oxford, United Kingdom (R. Dutton)

OTHER MANAGEMENT AND INSTITUTIONAL RESPONSIBILITIES

2024-present	Abstract scoring for the *ESHG*
2023	Chair IMGS, Session: Human Disease Model, Japan (200 participants)
2022	Chair IRC5 conference, Session: Human Genetics, online (250 participants)
2021-present	Abstract scoring for the *IMGS* and *TAGC*
2022-present	Jury Young Researcher Congress, UBFC Dijon
2021-present	Webinar Coordinator, Inserm Unit 1231 Dijon
2021-present	Webinar Coordinator, IRC5 International Consortium
2020-present	Organizer of Internal Seminars, Inserm Unit 1231 Dijon
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	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

2023	Editor's Choice in Genetics in Medicine: YWHAE loss of function causes rare neurodevelopmental disease (https://www.gimjournal.org/editors-choice)
2023	WDR project selected for the ANR Science with and for Society (SAPS) call for comic book diffusion in schools throughout France
2022	University of Bourgogne Franche-Comté, France "L'équipe NeuroGeMM a contribué à un ouvrage sur les méthodes innovantes en recherche translationnelle sur les maladies du neurodéveloppement comme l'autisme ou la déficience intellectuelle" https://www.u-bourgogne.fr/actualites-de-la-recherche/des-methodes-innovantes-de-recherche-sur-les-maladies-du-neurodeveloppement.html
2021	Wellcome Sanger Institute News article by Communications Team "Loss of gene linked to differences in brain size" https://www.sanger.ac.uk/news_item/loss-of-gene-linked-to-differences-in-brain-size/
2021	Inserm Press Release "L'absence de MAGEE2 : une mutation bénéfique" http://www.est.inserm.fr/actualites/l-absence-de-magee2-une-mutation-benefique
2021	University of Bourgogne Franche-Comté, France "Une mutation bénéfique : l'absence de MAGEE2 entraine une différence dans la taille du cerveau chez l'homme et chez la femme" https://www.u-bourgogne.fr/actualites-de-la-recherche/une-mutation-benefique-labsence-de-magee2-entraine-une-difference-dans-la-taille-du-cerveau-chez-lhomme-et-chez-la-femme.html
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 team 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 July 2024)

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	**53**
Original articles	**47**
Review/comment articles	**5**
Book Chapter	**1**
Correspondence/(co)last authorships	**21**
First authorships	**9**
Invited authorships	**8**
H-index (Google scholar)	**27**
i10 index (Google scholar)	**37**
Sum of the times cited (Google scholar)	**6174**
Category Normalised Citation Impact	**3.2**

11% of publications in Top 1%, 40% in Top 10%

ARTICLES IN REVISION

2024

Bayam E, Tilly P, Collins SC, Alvarez J, Kannan M, Tonneau L, Rinaldi B, Lecat R, Schwaller N, Maddirevula S, Monteiro F, Kitajima P, Kok F, Kato M, Hamed A, Salih M, Al Tala S, Hashem M, Tada H, Saitsu H, Friant S, Yüksel Z, Nakashima M, Alkuraya F, **Yalcin B***, Godin JD*. Bi-allelic variants in *WDR47* cause a rare neurodevelopmental syndrome. **EMBO Molecular Medicine**. [*Co-last/Correspondence].

Amelan A, Collins SC, Damseh N, Dvir E, Monderer-Rothkoff G, Harel T, **Yalcin B***, Shifman S*. Identification of novel genes and pathways essential for neural development. **Nature Neuroscience**. [*Co-last/Correspondence]

Picketts D, Mirzaa G, Yan K, Relator R, Timpano S, **Yalcin B**, Collins S, Ziegler A, Pao E, Oyama N, Brischoux-Boucher E, Piard J, Monaghan K, Sacoto MG, Dobyns W, Park K, Fernández-Mayoralas D, Fernández-Jaén A, Jayakar P, Brusco A, Antona V, Giorgio E, Kvarnung M, Isidor B, Conrad S, Cogné B, Deb W, Stuurman KE, Sterbova K, Smal N, Weckhuysen S, Oegema R, Innes M, Latsko M, Ben-Omran T, Yeh R, Kruer M, Bakhtiari S, Papavasiliou A, Moutton S, Nambot S, Chanprasert S, Paolucci S, Miller K, Burton B, Kim K, O'Heir E, Bruwer Z, Donald K, Kleefstra T, Goldstein A, Angle B, Bontempo K, Miny P, Joset P, Demurger F, Hobson E, Pang L, Carpenter L, Li D, Bonneau D, Sadikovic B. Pathogenic variants in SMARCA1 cause an X-linked neurodevelopmental disorder modulated by NURF complex composition. **Nature Communications**.

Carrano N, Ribeiro A, Italia M, La Greca F, Genova F, D'Andrea L, Zianni E, Ponzoni L, Barthet G, Collins SC, Sala M, Mitro N, Mulle C, **Yalcin B**, Marcello E, Gardoni F, DiLuca M, Scheggia D. RNF10 as NMDA receptor-dependent signaling protein necessary for cognitive flexibility. **Molecular Psychiatry**.

FULL PUBLICATION LIST

47 Original Articles

2024

Bassani S, Chrast J, Ambrosini G, Voisin N, Schütz F, Brusco A, Sirchia F, Turban L, Schubert S, Abou Jamra R, Schlump JU, DeMille D, Bayrak-Toydemir P, Nelson GR, Wong KN, Duncan L, Mosera M, Gilissen C, Vissers LELM, Pfundt R, Kersseboom R, Yttervik H, Hansen GÅM, Smeland MF, Butler KM, Lyons MJ, Carvalho CMB, Zhang C, Lupski JR, Potocki L, Flores-Gallegos L, Morales-Toquero R, Petit F, **Yalcin B**, Tuttle A, Elloumi HZ, McCormick L, Kukolich M, Klaas O, Horvath J, Scala M, Iacomino M, Operto F, Zara F, Writzl K, Maver A, Haanpää MK, Pohjola P, Arikka H, Kievit AJA, Calandrini C, Iseli C, Guex N, Reymond A. Variant-specific pathophysiological mechanisms of AFF3 differently influence transcriptome profiles. **Genome Medicine**. 2024 May 30;16(1):72.

Loe-Mie Y, Plançon C, Dubertret C, Yoshikawa T, **Yalcin B**, Collins SC, Boland A, Deleuze JF, Gorwood P, Benmessaoud D, Simonneau M, Lepagnol-Bestel AM. De Novo Variants Found in Three Distinct Schizophrenia Populations Hit a Common Core Gene Network Related to Microtubule and Actin Cytoskeleton Gene Ontology Classes. **Life**. 2024 Feb 9;14(2):244.

Laugwitz L, Cheng F, Collins SC, Hustinx A, Navarro N, Welsch S, Cox H, Hsieh TC, Vijayananth A, Buchert R, Bender B, Efthymiou S, Murphy D, Zafar F, Rana N, Grasshoff U, Falb RJ, Grimmel M, Seibt A, Zheng W, Ghaedi H, Thirion M, Couette S, Azizimalamiri R, Sadeghian S, Galehdari H, Zamani M, Zeighami J, Sedaghat A, Ramshe SM, Zare A, Alipoor B, Klee D, Sturm M, Ossowski S, Houlden H, Riess O, Wieczorek D, Gavin R, Maroofian R, Krawitz P, **Yalcin B***, Distelmaier F, Haack TB*. ZSCAN10 deficiency causes a neurodevelopmental disorder with characteristic oto-facial malformations. **Brain**. 2024 Feb 22:awae058. [*Co-last].

2023

Kretz P, Wagner C, Mikhaleva A, Montillot C, Hugel S, Morella I, Kannan M, Fischer MC, Milhau M, Yalcin I, Brambilla R, Selloum M, Herault Y, Reymond A, Collins S, **Yalcin B**. Dissecting the autism-associated 16p11.2 locus identifies multiple drivers in neuroanatomical phenotypes and unveils a male-specific role for the major vault protein. **Genome Biology**. 2023 Nov 15;24(1):261.

Cisneros J, Lalande A, **Yalcin B**, Meriaudeau F, Collins SC. Automatic Segmentation of Histological Images of Mouse Brains. **Algorithms**. 2023, 16, 553.

Montillot C, Skutunova E, Ayushma, Dubied M, Lahmar A, Nguyen S, Peerally B, Prin F, Duffourd Y, Thauvin-Robinet C, Duplomb L, Wang H, Ansar M, Faivre L, Navarro N, Minocha S, Collins SC, **Yalcin B**. Characterization of Vps13b-mutant mice reveals neuroanatomical and behavioral phenotypes with females less affected. **Neurobiology of Disease**. 2023 Sep;185:106259.

Levitin MO, Rawlins LE, Sanchez-Andrade G, Arshad OA, Collins SC, Sawiak SJ, Iffland PH, Andersson MHL, Bupp C, Cambridge EL, Coomber EL, Ellis I, Herkert JC, Ironfield H, Jory L, Kretz PF, Kant SG, Neaverson A, Nibbeling E, Rowley C, Relton E, Sanderson M, Scott EM, Stewart H, Shuen AY, Schreiber J, Tuck L, Tonks J, Terkelsen T, van Ravenswaaij-Arts C, Vasudevan P, Wenger O, Wright M, Day A, Hunter A, Patel M, Lelliott CJ, Crino PB, **Yalcin B**, Crosby A, Baple EL, Logan DW, Hurles ME, Gerety SS. Models of KPTN-related disorder implicate mTOR signalling in cognitive and overgrowth phenotypes. **Brain**. 2023 Jul 12:awad231.

Denommé-Pichon AS, Collins SC, Bruel AL, Mikhaleva A, Wagner C, Vancollie VE, Thomas Q, Chevarin M, Weber M, Prada CE, Overs A,

Palomares-Bralo M, Santos-Simarro F, Pacio-Míguez M, Busa T, Legius E, Bacino CA, Rosenfeld JA, Le Guyader G, Egloff M, Le Guillou X, Mencarelli MA, Renieri A, Grosso S, Levy J, Dozières B, Desguerre I, Vitobello A, Duffourd Y, Lelliott CJ, Thauvin-Robinet C, Philippe C, Faivre L*, **Yalcin B***. YWHAE loss of function causes a rare neurodevelopmental disease with brain abnormalities in human and mouse. **Genetics in Medicine**. 2023 Mar 28:100835 [*Co-last].

2022

Collins SC, Vancollie VE, Mikhaleva A, Wagner C, Balz R, Lelliott CJ, **Yalcin B***. Characterization of Two Mouse Chd7 Heterozygous Loss-of-Function Models Shows Dysgenesis of the Corpus Callosum and Previously Unreported Features of CHARGE Syndrome. **International Journal of Molecular Sciences** 2022 Sep 29;23(19):11509 [*Invited].

Nguyen S, Kannan M, Gaborit M, Collins SC, **Yalcin B***. Quantitative Neuroanatomical Phenotyping of the Embryonic Mouse Brain. **Current Protocols**. 2022 Jul;2(7):e509 [*Invited].

Romero DM, Poirier K, Belvindrah R, Moutkine I, Houllier A, LeMoing AG, Petit F, Boland A, Collins SC, Soiza-Reilly M, **Yalcin B**, Chelly J, Deleuze JF, Bahi-Buisson N, Francis F. Novel role of the synaptic scaffold protein Dlgap4 in ventricular surface integrity and neuronal migration during cortical development. **Nature Communications**. 2022 May 18;13(1):2746.

Rawlins LE, Almousa H, Khan S, Collins SC, Milev MP, Leslie J, Saint-Dic D, Khan V, Hincapie AM, Day JO, McGavin L, Rowley C, Harlalka GV, Vancollie VE, Ahmad W, Lelliott CJ, Gul A, **Yalcin B***, Crosby AH*, Sacher M*, Baple EL*. Biallelic variants in TRAPPC10 cause a microcephalic TRAPPopathy disorder in humans and mice. **PLoS Genetics**. 2022 Mar 17;18(3):e1010114 [*Co-last].

2021

Szpak* M, Collins SC, Li Y, Liu X, Ayub Q, Fischer MC, Vancollie VE, Lelliott CJ, Xue Y, **Yalcin B***, Yang H, Tyler-Smith C*. A positively-selected MAGEE2 LoF allele is associated with sexual dimorphism in human brain size, and shows similar phenotypes in Magee2 null mice. **Molecular Biology and Evolution**. 2021 Aug 31:msab243 [*Correspondence].

Baud A, Casale FP, Barkley-Levenson AM, Farhadi N, Montillot C, **Yalcin B**, Nicod J, Palmer AA, Stegle O. Dissecting indirect genetic effects from peers in laboratory mice. **Genome Biology**. 2021 Jul 26;22(1):216.

Voisin N, Schnur RE, Douzgou S, Hiatt SM, Rustad CF, Brown NJ, Earl DL, Keren B, Levchenko O, Geuer S, Verheyen S, Johnson D, Zarate YA, Hančárová M, Amor DJ, Bebin EM, Blatterer J, Brusco A, Cappuccio G, Charrow J, Chatron N, Cooper GM, Courtin T, Dadali E, Delafontaine J, Del Giudice E, Doco M, Douglas G, Eisenkölbl A, Funari T, Giannuzzi G, Gruber-Sedlmayr U, Guex N, Heron D, Holla ØL, Hurst ACE, Juusola J, Kronn D, Lavrov A, Lee C, Lorrain S, Merckoll E, Mikhaleva A, Norman J, Pradervand S, Prchalová D, Rhodes L, Sanders VR, Sedláček Z, Seebacher HA, Sellars EA, Sirchia F, Takenouchi T, Tanaka AJ, Taska-Tench H, Tønne E, Tveten K, Vitiello G, Vlčková M, Uehara T, Nava C, **Yalcin B**, Kosaki K, Donnai D, Mundlos S, Brunetti-Pierri N, Chung WK, Reymond A. Variants in the degron of AFF3 are associated with intellectual disability, mesomelic dysplasia, horseshoe kidney, and epileptic encephalopathy. **American Journal of Human Genetics**. 2021 May 6;108(5):857-873.

Niewiadomska-Cimicka A, Doussau F, Perot JB, Roux MJ, Keime C, Hache A, Piguet F, Novati A, Weber C, **Yalcin B**, Meziane H, Champy MF, Grandgirard

E, Karam A, Messaddeq N, Eisenmann A, Brouillet E, Nguyen HHP, Flament J, Isope P, Trottier Y. SCA7 Mouse Cerebellar Pathology Reveals Preferential Downregulation of Key Purkinje Cell-Identity Genes and Shared Disease Signature with SCA1 and SCA2. **Journal of Neuroscience**. 2021 Jun 2;41(22):4910-4936.

Bonfante B, Faux P, Navarro N, Mendoza-Revilla J, Dubied M, Montillot C, Wentworth E, Poloni L, Varón-González C, Jones P, Xiong Z, Fuentes-Guajardo M, Palmal S, Chacón-Duque JC, Hurtado M, Villegas V, Granja V, Jaramillo C, Arias W, Barquera R, Everardo-Martínez P, Sánchez-Quinto M, Gómez-Valdés J, Villamil-Ramírez H, Silva de Cerqueira CC, Hünemeier T, Ramallo V, Liu F, Weinberg SM, Shaffer JR, Stergiakouli E, Howe LJ, Hysi PG, Spector TD, Gonzalez-José R, Schüler-Faccini L, Bortolini MC, Acuña-Alonzo V, Canizales-Quinteros S, Gallo C, Poletti G, Bedoya G, Rothhammer F, Thauvin-Robinet C, Faivre L, Costedoat C, Balding D, Cox T, Kayser M, Duplomb L, **Yalcin B**, Cotney J, Adhikari K, Ruiz-Linares A. A GWAS in Latin Americans identifies novel face shape loci, implicating VPS13B and a Denisovan introgressed region in facial variation. **Science Advances**. 2021 Feb 5;7(6):eabc6160.

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. **Human Genetics**. 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. **American Journal of Human Genetics**. 2020 Dec 3;107(6):1170-1177 [*Correspondence].

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. **Human Molecular Genetics**. 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. **Journal of Anatomy**. 2019 Sep;235(3):637-650 [*Correspondence].

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.

Loviglio MN, Arbogast T, Jønch AE, Collins SC, Popadin K, Bonnet CS, Giannuzzi G, Maillard AM, Jacquemont S; 16p11.2 Consortium, **Yalcin B**, Katsanis N, Golzio C, Reymond A. The Immune Signaling Adaptor LAT Contributes to the Neuroanatomical Phenotype of 16p11.2 BP2-BP3 CNVs. **American Journal of Human Genetics**. 2017 Oct 5;101(4):564-577.

van der Werf IM, Van Dam D, Missault S, **Yalcin B**, De Deyn PP, Vandeweyer G, Kooy RF. Behavioural characterization of AnkyrinG deficient mice, a model for ANK3 related disorders. **Behavioural Brain Research**. 2017 Jun 15;328:218-226.

2016

Mikhaleva A, Kannan M, Wagner C, **Yalcin B***. High-throughput morphological phenotyping of the mouse brain. **Current Protocols in Mouse Biology**. 2016 [*Invited].

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*. A comparative phenotypic and genomic analysis of C57BL/6J and C57BL/6N mouse strains. **Genome Biology**. 2013, 14(7):R82 [*Co-last].

White JK, Gerdin AK, Karp NA, Ryder E, Buljan M, Bussell JN, Salisbury J, Clare S, Ingham NJ, Podrini C, Houghton R, Estabel J, Bottomley JR, Melvin DG, Sunter D, Adams NC, **Yalcin B**, Sanger Institute Mouse Genetics Project, Tannahill D, Logan DW, Macarthur DG, Flint J, Mahajan VB, Tsang SH, Smyth I, Watt FM, Skarnes WC, Dougan G, Adams DJ, Ramirez-Solis R, Bradley A, Steel KP. Genome-wide generation and systematic phenotyping of knockout mice reveals new roles for many genes. **Cell**. 2013, 154(2) :452-64.

2012 **Yalcin B***, Wong K, Bhomra A, Goodson M, Keane T, Adams D, Flint J. The fine-scale architecture of structural variants in 17 mouse genomes. **Genome Biology**. 2012, 13(3):R18 [*Correspondence].

Nellåker C, Keane T, **Yalcin B**, Wong K, Agam A, Belgard G, Flint J, Adams D, Frankel W, Ponting C. The genomic landscape shaped by selection on transposable elements across 18 mouse strains. **Genome Biology**. 2012, 13(6):R45.

Collaborative Cross Consortium. The genome architecture of the Collaborative Cross mouse genetic reference population. **Genetics**. 2012, 190(2):389-401.

2011 **Yalcin B**, Wong K, Agam A, Goodson M, Keane T, Gan X, Nellåker C, Goodstadt L, Nicod J, Bhomra A, Hernandez-Pliego P, Whitley H, Cleak J, Dutton R, Mott R, Adams D, Flint J. Sequence based characterization of structural variation in the mouse genome. **Nature**. 2011, 477(7364):326-9.

Keane T, Goodstadt L, Danecek P, White M, Wong K, **Yalcin B**, Heger A, Agam A, Slater G, Goodson M, Furotte N, Eskin E, Nellåker C, Whitley H, Cleak J, Janowitz D, Hernandez-Pliego P, Edwards A, Belgard G, Oliver P, McIntyre R, Bhomra A, Nicod J, Gan X, Yuan W, van der Weyden L, Steward C, Balasubramaniam S, Stalker J, Mott R, Durbin R, Jackson I, Czechanski, Assuncao J, Donahue L, Reinholdt, Payseur B, Ponting C, Birney E, Flint J, Adams D. Mouse genomic variation and its effect on phenotypes and gene regulation. **Nature**. 2011, 477(7364):289-94.

Durrant C, Tayem H, **Yalcin B**, Cleak J, Goodstadt L, Pardo-Manuel de Villena F, Mott R, Iraqi F. Collaborative Cross mice and their power to map host susceptibility to Aspergillus fumigatus infection. **Genome Research**. 2011, 21(8):1239-1248.

2010 **Yalcin B**, Nicod J, Bhomra A, Davidson S, Cleak J, Farinelli L, Østerås M, Yuan W, Whitley A, Gan X, Goodson M, Klenerman P, Satpathy A, Benoist C, Adams DJ, Mott R, Flint J. Commercially available outbred mice for genome-wide association studies. **PLoS Genetics**. 2010, 2;6(9).

Agam A*, **Yalcin B***, Bhomra A, Cubin M, Webber C, Holmes C, Flint J, Mott R. Elusive copy number variation in the mouse genome. **PLoS One**. 2010, 5(9) [*Co-first].

2009 Huang G, Shifman S, Valdar W, Johannesson M, **Yalcin B**, Taylor MS, Taylor

JM, Mott R, Flint J. High resolution mapping of expression QTLs in heterogeneous stock mice in multiple tissues. **Genome Research**. 2009, 19: 1133-1140.

2008 Munafò MR, **Yalcin B**, Willis-Owen SA, Flint J. Association of the dopamine D4 receptor (DRD4) gene and approach-related personality traits: meta-analysis and new data. **Biological Psychiatry**. 2008, 63: 197-206.

Fullerton J, Willis-Owen SA, **Yalcin B**, Shifman S, Copley RR, Miller S, Bhomra A, Davidson S, Oliver PL, Mott R, Flint J. Human-mouse quantitative trait locus concordance and the dissection of a human neuroticism locus. **Biological Psychiatry**. 2008, 63: 874-883.

2005 **Yalcin B**, Flint J, Mott R. Using progenitor strain information to identify quantitative trait nucleotides in outbred mice. **Genetics**. 2005, 171: 673-681.

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.** 2004, 36: 1197-1202.

Yalcin B, Fullerton J, Miller S, Keays DA, Brady SA, Bhomra A, Jefferson A, Volpi E, Copley RR, Flint J, Mott R. Unexpected complexity in the haplotypes of commonly used inbred strains of laboratory mice. **Proc Natl Acad Sci U S A.** 2004, 101: 9734-9739.

5 Review/Comment Articles

2024 Ellwanger K, Brill J, de Boer E, Cali E, Ebstein F, Efthymiou S, Elgersma Y, Faivre L, Icmat M, Lecoquierre F, Lobato A, Morleo M, Ori M, Schaffer A, Turchetti V, Vissers L, Vitobello A, Wells S, **Yalcin B**, Zhai G, Zhu Yi, Schmidt P, Sturm M, Zurek B, Graessner H, Bermejo-Sanchez E, Evangelista T, Hoogerbrugge N, Nigro V, Schüle R, Verloes A, Brunner H, Campeau P, Lasko P, Riess O. Model matchmaking via the Solve-RD Rare Disease Models & Mechanisms Network (RDMM-Europe). **Nature Lab Animal**. 2024 Jul;53(7):161-165.

Vacca F, **Yalcin B***, Ansar M*. Exploring the pathological mechanisms underlying Cohen syndrome. **Frontiers in Neuroscience**. 2024 Jul; volume 18. [*Invited and Co-last].

2014 Keane TM, Wong K, Adams DJ, Flint J, Reymond A, **Yalcin B***. Identification of structural variation in mouse genomes. **Frontiers in Genetics**. 2014, 5:19 [*Invited and Correspondence].

2012 **Yalcin B***, Adams D, Flint J, Keane T. Next-generation sequencing of experimental mouse strains. **Mammalian Genome**. 2012, 23(9-10):490-8 [*Invited and Correspondence].

Yalcin B*, Flint J. Association studies in outbred mice in a new era of full-genome sequencing. **Mammalian Genome.** 2012, 23(9-10):719-26 [*Invited and Correspondence].

1 Book Chapter

2022 Collins SC and **Yalcin B***. Translational research methods in neurodevelopment disorder. **Springer** [*Invited and Correspondence].