





2024

Allison, Katherine, Mirjana Maletic-Savatic, Davut Pehlivan. 2024. "MECP2-related disorders while gene-based therapies are on the horizon." *Frontiers in Genetics* 15, 1332469. <https://doi.org/10.3389/fgene.2024.1332469>

Pehlivan, Davut, Sukru Aras, Daniel G. Glaze, Muharrem Ak, Bernhard Suter, Kathleen J. Motil. 2024. "Development and validation of parent-reported gastrointestinal health scale in MECP2 duplication syndrome." *Orphanet Journal of Rare Diseases* 19 (1): 52. <https://doi.org/10.1186/s13023-024-03022-2>

Raspa, Melissa, Angela Gwaltney, Carla Bann, Jana von Hehn, Timothy A. Benke, Eric D. Marsh, Sarika U. Peters, Amitha Ananth, Alan K. Percy, Jeffrey L. Neul. 2024. "Psychometric Assessment of the Rett Syndrome Caregiver Assessment of Symptom Severity" (RCASS)." *Journal of Autism and Developmental Disorders* 10.1007/s10803-024-06238-0. Advance online publication. <https://doi.org/10.1007/s10803-024-06238-0>

Suter, Bernhard, Davut Pehlivan, Muharrem Ak, Holly K. Harris, Ariel M. Lyons-Warren. 2024. "Sensory experiences questionnaire unravels differences in sensory profiles between MECP2-related disorders." *Autism Research : Official Journal of the International Society for Autism Research*. 10.1002/aur.3112. Advance online publication. <https://doi.org/10.1002/aur.3112>

2023

- Bamidele, Nathan, Han Zhang, Xiaolong Dong, Nicholas Gaston, Haoyang Cheng, Karen Kelly, Jonathan K. Watts, Jun Xie, Guangping Gao, Erik J. Sontheimer. 2023. "Engineering Nme2Cas9 Adenine Base Editors with Improved Activity and Targeting Scope." *bioRxiv : The Preprint Server for Biology* 2023.04.14.536905. <https://doi.org/10.1101/2023.04.14.536905>
- Powers, Samantha, Shibi Likhite, Kamal K. Gadalla, Carlos J. Miranda, Amy J. Huffenberger, Cassandra Dennys, Kevin D. Foust, Pablo Morales, Christopher R. Pierson, Federica Rinaldi, Stephanie Perry, Brad Bolon, Nicolas Wein, Stuart Cobb, Brian K. Kaspar, Kathryn C. Meyer. 2023. "Novel MECP2 gene therapy is effective in a multicenter study using two mouse models of Rett syndrome and is safe in non-human primates." *Molecular Therapy: The Journal of the American Society of Gene Therapy* 31(9): 2767–2782. <https://doi.org/10.1016/j.ymthe.2023.07.013>
- Qian, Junming, Xiaonan Guan, Bing Xie, Chuanyun Xu, Jacqueline Niu, Xin Tang, Charles H. Li, Henry M. Colecraft, Rudolf Jaenisch, X. Shawn Liu. 2023. "Multiplex epigenome editing of MECP2 to rescue Rett syndrome neurons." *Science Translational Medicine* 15(679): eadd4666. <https://doi.org/10.1126/scitranslmed.add4666>
- Reeve, Bryce B., Nicole Lucas, Dandan Chen, Molly McFatrigh, Harrison N. Jones, Kelly L. Gordon, Leslie Zapata Leiva, Li Lin, Monica Coenraads, Jana von Hehn, Randall L. Carpenter, Eric D. Marsh, Christina K. Zigler. 2023. "Validation of the Observer-Reported Communication Ability (ORCA) measure for individuals with Rett syndrome." *European Journal of Paediatric Neurology : EJPN : Official Journal of the European Paediatric Neurology Society* 46: 74–81. <https://doi.org/10.1016/j.ejpn.2023.07.007>
- Tzeng, Christopher P., Tess Whitwam, Lisa D. Boxer, Emmy Li, Andrew Silberfeld, Sara Trowbridge, Kevin Mei, Cindy Lin, Rebecca Shamah, Eric C. Griffith, William Renthall, Chinfei Chen, Michael E. Greenberg. 2023. "Activity-induced MeCP2 phosphorylation regulates retinogeniculate synapse refinement." *Proceedings of the National Academy of Sciences of the United States of America* 120(44): e2310344120. <https://doi.org/10.1073/pnas.2310344120>
- Zhang, Xizi, Claudia Cattoglio, Madeline Zoltek, Carlo Vetralla, Deepto Mozumdar, Alanna Schepartz. 2023. "Dose-Dependent Nuclear Delivery and Transcriptional Repression with a Cell-Penetrant MeCP2." *ACS Central Science* 9(2): 277–288. <https://doi.org/10.1021/acscentsci.2c01226>
- Zlatic, Stephanie A., Erica Werner, Veda Surapaneni, Chelsea E. Lee, Avanti Gokhale, Kaela Singleton, Duc Duong, Amanda Crocker, Karen Gentile, Frank Middleton, Joseph Martin Dalloul, William Li-Yun Liu, Anupam Patgiri, Daniel Tarquinio, Randall Carpenter, Victor Faundez. 2023. "Systemic Proteome Phenotypes Reveal Defective Metabolic Flexibility in Mecp2 Mutants." *bioRxiv : the Preprint Server for Biology* 2023.04.03.535431. <https://doi.org/10.1101/2023.04.03.535431>

2022

- Brinkman, Hannah F., Victorio Jauregui Matos, Herra G. Mendoza, Erin E. Doherty, Peter Beal. 2022. "Nucleoside analogs in ADAR guide strands targeting 5'-UA sites." *RSC Chemical Biology* 4(1): 74–83. <https://doi.org/10.1039/d2cb00165a>
- Doherty, Erin E., Agya Karki, Xander E. Wilcox, Herra G. Mendoza, Aashrita Manjunath, Victorio Jauregui Matos, Andrew J. Fisher, and Peter A. Beal. 2022. "ADAR activation by inducing a syn conformation at guanosine adjacent to an editing site." *Nucleic Acids Research* 50(19): 10857–10868. <https://doi.org/10.1093/nar/gkac897>
- Mira-Bontenbal, Hegias, Beatrice Tan, Cristina Gontan, Sander Goossens, Ruben G. Boers, Joachim B. Boers, Catherine Dupont, M.E. van Royen, W. F. J. IJcken, P. French, Antonio Bedalov, Joost Gribnau. 2022. "Genetic and epigenetic determinants of reactivation of Mecp2 and the inactive X chromosome in neural stem cells." *Stem Cell Reports* 8;17(3):693–706. <https://doi.org/10.1016/j.stemcr.2022.01.008>
- Sinnamon, John R., Michael E. Jacobson, John F. Yung, Jenna R. Fisk, Sophia Jeng, Shannon K. McWeeney, Lindsay K. Parmelee, Chi Ngai Chan, Siu-Pok Yee, and Gail Mandel. 2022. "Targeted RNA editing in brainstem alleviates respiratory dysfunction in a mouse model of Rett syndrome." *Proceedings of the National Academy of Sciences* 119(33): e2206053119. <https://doi.org/10.1073/pnas.2206053119>
- Zhang, Han, Nathan Bamidele, Pengpeng Liu, Ogooluwa Ojelabi, Xin D. Gao, Tomás Rodríguez, Haoyang Cheng et al. 2022. "Adenine base editing in vivo with a single adeno-associated virus vector." *GEN biotechnology* 1(3): 285–299. <https://doi.org/10.1089/genbio.2022.0015>
- Zlatic, Stephanie A., Duc Duong, Kamal KE Gadalla, Brenda Murage, Lingyan Ping, Ruth Shah, James J. Fink et al. 2022. "Convergent cerebrospinal fluid proteomes and metabolic ontologies in humans and animal models of Rett syndrome." *iScience* 25(9): 104966. <https://doi.org/10.1016/j.isci.2022.104966>

2021

- Shao, Yingyao, Yehezkel Sztainberg, Qi Wang, Sameer S. Bajikar, Alexander J. Trostle, Ying-Wooi Wan, Paymaan Jafar-nejad, et al. 2021. "Antisense Oligonucleotide Therapy in a Humanized Mouse Model of MECP2 Duplication Syndrome." *Science Translational Medicine* 13 (583): eaaz7785. <https://doi.org/10.1126/scitranslmed.aaz7785>.
- Tillotson, Rebekah, Justyna Cholewa-Waclaw, Kashyap Chhatbar, John C. Connelly, Sophie A. Kirschner, Shaun Webb, Martha V. Koerner, et al. 2021. "Neuronal Non-CG Methylation Is an Essential Target for MeCP2 Function." *Molecular Cell* 81 (6): 1260-1275.e12. <https://doi.org/10.1016/j.molcel.2021.01.011>.

2020

- Aeby, Eric, Hun-Goo Lee, Yong-Woo Lee, Andrea Kriz, Brian C. Del Rosario, Hyun Jung Oh, Myriam Boukhali, Wilhelm Haas, and Jeannie T. Lee. 2020. "Decapping Enzyme 1A Breaks X-Chromosome Symmetry by Controlling Tsix Elongation and RNA Turnover." *Nature Cell Biology*, August. <https://doi.org/10.1038/s41556-020-0558-0>.
- Bernardo, Pia, Stuart Cobb, Antonietta Coppola, Leo Tomasevic, Vincenzo Di Lazzaro, Carmela Bravaccio, Fiore Manganelli, and Raffaele Dubbioso. 2020. "Neurophysiological Signatures of Motor Impairment in Patients with Rett Syndrome." *Annals of Neurology* 87 (5): 763-73. <https://doi.org/10.1002/ana.25712>.
- Boxer, Lisa D., William Renthal, Alexander W. Greben, Tess Whitwam, Andrew Silberfeld, Hume Stroud, Emmy Li, Marty G Yang, Benyam Kinde, Eric C Griffith, Boyan Bonev, Michael E Greenberg. 2020. "MeCP2 Represses the Rate of Transcriptional Initiation of Highly Methylated Long Genes." *Molecular Cell* 77 (2): 294-309.e9. <https://doi.org/10.1016/j.molcel.2019.10.032>.
- Chhatbar, Kashyap, Justyna Cholewa-Waclaw, Ruth Shah, Adrian Bird, and Guido Sanguinetti. 2020. "Quantitative Analysis Questions the Role of MeCP2 as a Global Regulator of Alternative Splicing." Edited by Dirk Schübeler. *PLoS Genetics* 16 (10): e1009087. <https://doi.org/10.1371/journal.pgen.1009087>.
- Colognori, David, Hongjae Sunwoo, Danni Wang, Chen-Yu Wang, and Jeannie T. Lee. 2020. "Xist Repeats A and B Account for Two Distinct Phases of X Inactivation Establishment." *Developmental Cell* 54 (1): 21-32.e5. <https://doi.org/10.1016/j.devcel.2020.05.021>.
- Connelly, John C, Justyna Cholewa-Waclaw, Shaun Webb, Verdiana Steccanella, Bartłomiej Waclaw, and Adrian Bird. 2020. "Absence of MeCP2 Binding to Non-Methylated GT-Rich Sequences in Vivo." *Nucleic Acids Research* 48 (7): 3542-52. <https://doi.org/10.1093/nar/gkaa102>.
- Enikanolaiye, Adebola, Julie Ruston, Rong Zeng, Christine Taylor, Marijke Schrock, Christie M. Buchovecky, Jay Shendure, Elif Acar, and Monica J. Justice. 2020. "Suppressor Mutations in Mecp2-Null Mice Implicate the DNA Damage Response in Rett Syndrome Pathology." *Genome Research* 30 (4): 540-52. <https://doi.org/10.1101/gr.258400.119>.
- Fagiolini, Michela, Annarita Patrizi, Jocelyn LeBlanc, Lee-Way Jin, Izumi Maezawa, Sarah Sinnett, Steven J. Gray, Sopia Molholm, John J Foxe, Michael V Johnston, Sakkubai Naidu, Mary Blue, Ahamed Hossain, Shilpa Kadam, Xinyu Zhao, Quiang Chang, Zhaolan Zhou, Huda Zoghbi. 2020. "Intellectual and Developmental Disabilities Research Centers: A Multidisciplinary Approach to Understand the Pathogenesis of Methyl-CpG Binding Protein 2-Related Disorders." *Neuroscience*, April. <https://doi.org/10.1016/j.neuroscience.2020.04.037>.
- Fu, Cary, Dallas Armstrong, Eric Marsh, David Lieberman, Kathleen Motil, Rochelle Witt, Shannon Standridge, Paige Nues, Jane Lane, Tristen Dinkel, Monica Coenraads, Jana von Hehn, Mary Jones, Katie Hale, Bernhard Suter, Daniel Glaze, Jeffery Neul, Alan Percy, Timothy Benke. 2020. "Consensus Guidelines on Managing Rett Syndrome across the Lifespan." *BMJ Paediatrics Open* 4 (1): e000717. <https://doi.org/10.1136/bmjpo-2020-000717>.
- Fu, Cary, Dallas Armstrong, Eric Marsh, David Lieberman, Kathleen Motil, Rochelle Witt, Shannon Standridge, Jane Lane, Tristen Dinkel, Mary Jones, Katie Hale, Bernhard Suter, Daniel Glaze, Jeffery Neul, Alan Percy, Timothy Benke. 2020. "Multisystem Comorbidities in Classic Rett Syndrome: A Scoping Review." *BMJ Paediatrics Open* 4 (1): e000731. <https://doi.org/10.1136/bmjpo-2020-000731>.
- Hou, Wei, Usree Bhattacharya, Wisnu A. Pradana, and Daniel C. Tarquinio. 2020. "Assessment of a Clinical Trial Metric for Rett Syndrome: Critical Analysis of the Rett Syndrome Behavioural Questionnaire." *Pediatric Neurology* 107: 48-56. <https://doi.org/10.1016/j.pediatrneurol.2020.01.009>.

- Neul, Jeffrey L., Steven A. Skinner, Fran Annese, Jane Lane, Peter Heydemann, Mary Jones, Walter E. Kaufmann, Daniel G. Glaze, and Alan K. Percy. 2020. "Metabolic Signatures Differentiate Rett Syndrome From Unaffected Siblings." *Frontiers in Integrative Neuroscience* 14: 7. <https://doi.org/10.3389/fnint.2020.00007>.
- Sinnamon, John R., Susan Y. Kim, Jenna R. Fisk, Zhen Song, Hiroyuki Nakai, Sophia Jeng, Shannon K. McWeeney, and Gail Mandel. 2020. "In Vivo Repair of a Protein Underlying a Neurological Disorder by Programmable RNA Editing." *Cell Reports* 32 (2): 107878. <https://doi.org/10.1016/j.celrep.2020.107878>.
- Sysoeva, Olga V., Sophie Molholm, Aleksandra Djukic, Hans-Peter Frey, and John J. Foxe. 2020. "Atypical Processing of Tones and Phonemes in Rett Syndrome as Biomarkers of Disease Progression." *Translational Psychiatry* 10 (1): 188. <https://doi.org/10.1038/s41398-020-00877-4>.
- Yang, Lin, Eda Yildirim, James E. Kirby, William Press, and Jeannie T. Lee. 2020. "Widespread Organ Tolerance to Xist Loss and X Reactivation except under Chronic Stress in the Gut." *Proceedings of the National Academy of Sciences of the United States of America* 117 (8): 4262–72. <https://doi.org/10.1073/pnas.1917203117>.

2019

- Ballinger, Elizabeth C., Christian P. Schaaf, Akash J. Patel, Antonia de Maio, Huifang Tao, David A. Talmage, Huda Y. Zoghbi, and Lorna W. Role. 2019. "Mecp2 Deletion from Cholinergic Neurons Selectively Impairs Recognition Memory and Disrupts Cholinergic Modulation of the Perirhinal Cortex." *ENeuro* 6 (6). <https://doi.org/10.1523/ENEURO.0134-19.2019>.
- Brima, Tufikameni, Sophie Molholm, Ciara J. Molloy, Olga V. Sysoeva, Eric Nicholas, Aleksandra Djukic, Edward G. Freedman, and John J. Foxe. 2019. "Auditory Sensory Memory Span for Duration Is Severely Curtailed in Females with Rett Syndrome." *Translational Psychiatry* 9 (1): 130. <https://doi.org/10.1038/s41398-019-0463-0>.
- Cholewa-Waclaw, Justyna, Ruth Shah, Shaun Webb, Kashyap Chhatbar, Bernard Ramsahoye, Oliver Pusch, Miao Yu, Philip Greulich, Bartłomiej J. Waclaw, and Adrian P. Bird. 2019. "Quantitative Modelling Predicts the Impact of DNA Methylation on RNA Polymerase II Traffic." *Proceedings of the National Academy of Sciences of the United States of America* 116 (30): 14995–0. <https://doi.org/10.1073/pnas.1903549116>.
- Faundez, Victor, Meghan Wynne, Amanda Crocker, and Daniel Tarquinio. 2019. "Molecular Systems Biology of Neurodevelopmental Disorders, Rett Syndrome as an Archetype." *Frontiers in Integrative Neuroscience* 13: 30. <https://doi.org/10.3389/fnint.2019.00030>.
- Picard, Nathalie, and Michela Fagiolini. 2019. "MeCP2: An Epigenetic Regulator of Critical Periods." *Current Opinion in Neurobiology* 59: 95–101. <https://doi.org/10.1016/j.conb.2019.04.004>.
- Sinnamon, John R., Kristof A. Torkency, Michael W. Linhoff, Sarah A. Vitak, Ryan M. Mulqueen, Hannah A. Pliner, Cole Trapnell, Frank J. Steemers, Gail Mandel, and Andrew C. Adey. 2019. "The Accessible Chromatin Landscape of the Murine Hippocampus at Single-Cell Resolution." *Genome Research* 29 (5): 857–69. <https://doi.org/10.1101/gr.243725.118>.
- Tang, Xin, Jesse Drotar, Keji Li, Cullen D. Clairmont, Anna Sophie Brumm, Austin J. Sullins, Hao Wu, Xiaoxiao Shawn Liu, Jinhua Wang, Nathanael S. Gray, Mriganka Sur, Rudolf Jaenisch. 2019. "Pharmacological Enhancement of KCC2 Gene Expression Exerts Therapeutic Effects on Human Rett Syndrome Neurons and Mecp2 Mutant Mice." *Science Translational Medicine* 11 (503). <https://doi.org/10.1126/scitranslmed.aau0164>.
- Tillotson, Rebekah, and Adrian Bird. 2019. "The Molecular Basis of MeCP2 Function in the Brain." *Journal of Molecular Biology*, October. <https://doi.org/10.1016/j.jmb.2019.10.004>.

2018

- Adrianse, Robin L., Kaleb Smith, Tonibelle Gatbonton-Schwager, Smitha P. Sripathy, Uyen Lao, Eric J. Foss, Ruben G. Boers, Joachim B. Boers, Joost Gribnau, and Antonio Bedalov. 2018. "Perturbed Maintenance of Transcriptional Repression on the Inactive X-Chromosome in the Mouse Brain after Xist Deletion." *Epigenetics & Chromatin* 11 (1): 50. <https://doi.org/10.1186/s13072-018-0219-8>.

- Carrette, Lieselot L. G., Roy Blum, Weiyuan Ma, Raymond J. Kelleher, and Jeannie T. Lee. 2018. "Tsix-Mecp2 Female Mouse Model for Rett Syndrome Reveals That Low-Level MECP2 Expression Extends Life and Improves Neuromotor Function." *Proceedings of the National Academy of Sciences of the United States of America* 115 (32): 8185–90. <https://doi.org/10.1073/pnas.1800931115>.
- Carrette, Lieselot L. G., Chen-Yu Wang, Chunyao Wei, William Press, Weiyuan Ma, Raymond J. Kelleher, and Jeannie T. Lee. 2018. "A Mixed Modality Approach towards Xi Reactivation for Rett Syndrome and Other X-Linked Disorders." *Proceedings of the National Academy of Sciences of the United States of America* 115 (4): E668–75. <https://doi.org/10.1073/pnas.1715124115>.
- Guy, Jacky, Beatrice Alexander-Howden, Laura FitzPatrick, Dina DeSousa, Martha V. Koerner, Jim Selfridge, and Adrian Bird. 2018. "A Mutation-Led Search for Novel Functional Domains in MeCP2." *Human Molecular Genetics* 27 (14): 2531–45. <https://doi.org/10.1093/hmg/ddy159>.
- Koerner, Martha V., Laura FitzPatrick, Jim Selfridge, Jacky Guy, Dina De Sousa, Rebekah Tillotson, Alastair Kerr, Zheng Sun, Mitchell A Lazar, Matthew J Lyst, Adrian Bird. 2018. "Toxicity of Overexpressed MeCP2 Is Independent of HDAC3 Activity." *Genes & Development* 32 (23–24): 1514–24. <https://doi.org/10.1101/gad.320325.118>.
- Leko, Vid, Smitha Sripathy, Robin L. Adrianse, Taylor Loe, Angela Park, Uyen Lao, Eric J. Foss, Marisa S. Bartolomei, and Antonio Bedalov. 2018. "Pooled ShRNA Screen for Reactivation of MeCP2 on the Inactive X Chromosome." *Journal of Visualized Experiments: JoVE*, no. 133 (02). <https://doi.org/10.3791/56398>.
- Lütjohann, Dieter, Adam M. Lopez, Jen-Chieh Chuang, Anja Kerksiek, and Stephen D. Turley. 2018. "Identification of Correlative Shifts in Indices of Brain Cholesterol Metabolism in the C57BL6/Mecp2tm1.1Bird Mouse, a Model for Rett Syndrome." *Lipids* 53 (4): 363–73. <https://doi.org/10.1002/lipd.12041>.
- Lyst, Matthew J., Robert Ekiert, Jacky Guy, Jim Selfridge, Martha V. Koerner, Cara Merusi, Dina De Sousa, and Adrian Bird. 2018. "Affinity for DNA Contributes to NLS Independent Nuclear Localization of MeCP2." *Cell Reports* 24 (9): 2213–20. <https://doi.org/10.1016/j.celrep.2018.07.099>.
- Rakela, Benjamin, Paul Brehm, and Gail Mandel. 2018. "Astrocytic Modulation of Excitatory Synaptic Signaling in a Mouse Model of Rett Syndrome." *eLife* 7. <https://doi.org/10.7554/eLife.31629>.
- Renthal, William, Lisa D. Boxer, Sinisa Hrvatin, Emmy Li, Andrew Silberfeld, M. Aurel Nagy, Eric C. Griffith, Thomas Vierbuchen, and Michael E. Greenberg. 2018. "Characterization of Human Mosaic Rett Syndrome Brain Tissue by Single-Nucleus RNA Sequencing." *Nature Neuroscience* 21 (12): 1670–79. <https://doi.org/10.1038/s41593-018-0270-6>.

2017

- Cronk, James C., Jasmin Herz, Taeg S. Kim, Antoine Louveau, Emily K. Moser, Ashish K. Sharma, Igor Smirnov, Kenneth S. Tung, Thomas J. Braciale, and Jonathan Kipnis. 2017. "Influenza A Induces Dysfunctional Immunity and Death in MeCP2-Overexpressing Mice." *JCI Insight* 2 (2): e88257. <https://doi.org/10.1172/jci.insight.88257>.
- Bahey, Noha G., Kamal K. E. Gadalla, Rhona McGonigal, Mark E. S. Bailey, Julia M. Edgar, and Stuart R. Cobb. 2017. "Reduced Axonal Diameter of Peripheral Nerve Fibers in a Mouse Model of Rett Syndrome." *Neuroscience* 358: 261–68. <https://doi.org/10.1016/j.neuroscience.2017.06.061>.
- Gadalla, Kamal K. E., Thishnapha Vudhironarit, Ralph D. Hector, Sarah Sinnett, Noha G. Bahey, Mark E. S. Bailey, Steven J. Gray, and Stuart R. Cobb. 2017. "Development of a Novel AAV Gene Therapy Cassette with Improved Safety Features and Efficacy in a Mouse Model of Rett Syndrome." *Molecular Therapy. Methods & Clinical Development* 5 (June): 180–90. <https://doi.org/10.1016/j.omtm.2017.04.007>.
- Kruusvee, Valdeko, Matthew J. Lyst, Ceitidh Taylor, Žygimantė Tarnauskaitė, Adrian P. Bird, and Atlanta G. Cook. 2017. "Structure of the MeCP2-TBLR1 Complex Reveals a Molecular Basis for Rett Syndrome and Related Disorders." *Proceedings of the National Academy of Sciences of the United States of America* 114 (16): E3243–50. <https://doi.org/10.1073/pnas.1700731114>.
- Lagger, Sabine, John C. Connelly, Gabriele Schweikert, Shaun Webb, Jim Selfridge, Bernard H. Ramsahoye, Miao Yu, Chuan He, Guido Sanguinetti, Lawrence C Sowers, Malcolm D Walkinshaw, Adrian Bird. 2017. "MeCP2 Recognizes Cytosine Methylated Tri-Nucleotide and Di-Nucleotide Sequences to Tune Transcription in the Mammalian Brain." *PLoS Genetics* 13 (5): e1006793. <https://doi.org/10.1371/journal.pgen.1006793>.

- Li, Wei, Alba Bellot-Saez, Mary L. Phillips, Tao Yang, Frank M. Longo, and Lucas Pozzo-Miller. 2017. "A Small-Molecule TrkB Ligand Restores Hippocampal Synaptic Plasticity and Object Location Memory in Rett Syndrome Mice." *Disease Models & Mechanisms* 10 (7): 837-45. <https://doi.org/10.1242/dmm.029959>.
- Lombardi, Laura M., Manar Zaghlula, Yehezkel Sztainberg, Steven A. Baker, Tiemo J. Klisch, Amy A. Tang, Eric J. Huang, and Huda Y. Zoghbi. 2017. "An RNA Interference Screen Identifies Druggable Regulators of MeCP2 Stability." *Science Translational Medicine* 9 (404). <https://doi.org/10.1126/scitranslmed.aaf7588>.
- Lopez, Adam M., Jen-Chieh Chuang, Kenneth S. Posey, and Stephen D. Turley. 2017a. "Corrigenda to "Suppression of Brain Cholesterol Synthesis in Male Mecp2-Deficient Mice Is Age Dependent and Not Accompanied by a Concurrent Change in the Rate of Fatty Acid Synthesis" [Brain Res. 1654 (2017) 77-84]." *Brain Research* 1657: 383. <https://doi.org/10.1016/j.brainres.2016.12.016>.
- Nissenkorn, Andreea, Mona Kidon, and Bruria Ben-Zeev. 2017. "A Potential Life-Threatening Reaction to Glatiramer Acetate in Rett Syndrome." *Pediatric Neurology* 68: 40-43. <https://doi.org/10.1016/j.pediatrneurol.2016.11.006>.
- Sajan, Samin A., Shalini N. Jhangiani, Donna M. Muzny, Richard A. Gibbs, James R. Lupski, Daniel G. Glaze, Walter E. Kaufmann, Steven A Skinner, Fran Annese, Michael J Friez, Jane Lane, Alan Percy, Jeffery L Neul. 2017. "Enrichment of Mutations in Chromatin Regulators in People with Rett Syndrome Lacking Mutations in MECP2." *Genetics in Medicine: Official Journal of the American College of Medical Genetics* 19 (1): 13-19. <https://doi.org/10.1038/gim.2016.42>.
- Shah, Ruth R., and Adrian P. Bird. 2017. "MeCP2 Mutations: Progress towards Understanding and Treating Rett Syndrome." *Genome Medicine* 9 (1): 17. <https://doi.org/10.1186/s13073-017-0411-7>.
- Sinnamon, John R., Susan Y. Kim, Glen M. Corson, Zhen Song, Hiroyuki Nakai, John P. Adelman, and Gail Mandel. 2017a. "Site-Directed RNA Repair of Endogenous Mecp2 RNA in Neurons." *Proceedings of the National Academy of Sciences of the United States of America* 114 (44): E9395-9402. <https://doi.org/10.1073/pnas.1715320114>.
- Sinnett, Sarah E., and Steven J. Gray. 2017a. "Recent Endeavors in MECP2 Gene Transfer for Gene Therapy of Rett Syndrome." *Discovery Medicine* 24 (132): 153-59. PMID: 29272692
- Sinnett, Sarah E., Ralph D. Hector, Kamal K. E. Gadalla, Clifford Heindel, Daphne Chen, Violeta Zaric, Mark E. S. Bailey, Stuart R. Cobb, and Steven J. Gray. 2017. "Improved MECP2 Gene Therapy Extends the Survival of MeCP2-Null Mice without Apparent Toxicity after Intracisternal Delivery." *Molecular Therapy. Methods & Clinical Development* 5 (June): 106-15. <https://doi.org/10.1016/j.omtm.2017.04.006>.
- Sripathy, Smitha, Vid Leko, Robin L. Adrianse, Taylor Loe, Eric J. Foss, Emily Dalrymple, Uyen Lao, Tonibelle Gatbonton-Schwager, Kelly T Carter, Bernhard Payer, Patrick J Padison, William M Grady, Jeannie T Lee, Marisa S Bartolomei, Antonio Bedalov. 2017. "Screen for Reactivation of MeCP2 on the Inactive X Chromosome Identifies the BMP/TGF- β Superfamily as a Regulator of XIST Expression." *Proceedings of the National Academy of Sciences of the United States of America* 114 (7): 1619-24. <https://doi.org/10.1073/pnas.1621356114>.
- Stroud, Hume, Susan C. Su, Sinisa Hrvatin, Alexander W. Greben, William Renthal, Lisa D. Boxer, M. Aurel Nagy, Daniel R Hochbaum, Benyam Kinde, Harrison W Gable, Michael E Greenberg. 2017. "Early-Life Gene Expression in Neurons Modulates Lasting Epigenetic States." *Cell* 171 (5): 1151-1164.e16. <https://doi.org/10.1016/j.cell.2017.09.047>.
- Tillotson, Rebekah, Jim Selfridge, Martha V. Koerner, Kamal K. E. Gadalla, Jacky Guy, Dina De Sousa, Ralph D. Hector, Stuart R. Cobb, and Adrian Bird. 2017. "Radically Truncated MeCP2 Rescues Rett Syndrome-like Neurological Defects." *Nature* 550 (7676): 398-401. <https://doi.org/10.1038/nature24058>.

2016

- Brown, Kyla, Jim Selfridge, Sabine Lager, John Connelly, Dina De Sousa, Alastair Kerr, Shaun Webb, Jacky Guy, Cara Merusi, Martha V Koerner, Adrian Bird. 2016. "The Molecular Basis of Variable Phenotypic Severity among Common Missense Mutations Causing Rett Syndrome." *Human Molecular Genetics* 25 (3): 558-70. <https://doi.org/10.1093/hmg/ddv496>.
- Cholewa-Waclaw, Justyna, Adrian Bird, Melanie von Schimmelmann, Anne Schaefer, Huimei Yu, Hongjun Song, Ram Madabhushi, and Li-Huei Tsai. 2016. "The Role of Epigenetic Mechanisms in the Regulation of Gene Expression in the Nervous System." *The Journal of Neuroscience: The Official Journal of the Society for Neuroscience* 36 (45): 11427-34. <https://doi.org/10.1523/JNEUROSCI.2492-16.2016>.

- Djukic, Aleksandra, Roe Holtzer, Shlomo Shinnar, Hiren Muzumdar, Susan A. Rose, Wenzhu Mowrey, Aristeia S. Galanopoulou, Shinnar R, Jankowski JJ, Feldman JF, Pillai S, Moshe SL. 2016. "Pharmacologic Treatment of Rett Syndrome With Glatiramer Acetate." *Pediatric Neurology* 61: 51–57. <https://doi.org/10.1016/j.pediatrneurol.2016.05.010>.
- Du, Fang, Minh Vu Chuong Nguyen, Ariel Karten, Christy A. Felice, Gail Mandel, and Nurit Ballas. 2016. "Acute and Crucial Requirement for MeCP2 Function upon Transition from Early to Late Adult Stages of Brain Maturation." *Human Molecular Genetics* 25 (9): 1690–1702. <https://doi.org/10.1093/hmg/ddw038>.
- Foxe, John J., Kelly M. Burke, Gizely N. Andrade, Aleksandra Djukic, Hans-Peter Frey, and Sophie Molholm. 2016. "Automatic Cortical Representation of Auditory Pitch Changes in Rett Syndrome." *Journal of Neurodevelopmental Disorders* 8 (1): 34. <https://doi.org/10.1186/s11689-016-9166-5>.
- Katz, David M., Adrian Bird, Monica Coenraads, Steven J. Gray, Debashish U. Menon, Benjamin D. Philpot, and Daniel C. Tarquinio. 2016. "Rett Syndrome: Crossing the Threshold to Clinical Translation." *Trends in Neurosciences* 39 (2): 100–113. <https://doi.org/10.1016/j.tins.2015.12.008>.
- Kinde, Benyam, Dennis Y. Wu, Michael E. Greenberg, and Harrison W. Gabel. 2016. "DNA Methylation in the Gene Body Influences MeCP2-Mediated Gene Repression." *Proceedings of the National Academy of Sciences of the United States of America* 113 (52): 15114–19. <https://doi.org/10.1073/pnas.1618737114>.
- Kyle, Stephanie M., Pradip K. Saha, Hannah M. Brown, Lawrence C. Chan, and Monica J. Justice. 2016. "MeCP2 Co-Ordinates Liver Lipid Metabolism with the NCoR1/HDAC3 Corepressor Complex." *Human Molecular Genetics* 25 (14): 3029–41. <https://doi.org/10.1093/hmg/ddw156>.
- Lessing, Derek, Thomas O. Dial, Chunyao Wei, Bernhard Payer, Lieselot L. G. Carrette, Barry Kesner, Attila Szanto, Ajit Jadhav, David J Maloney, Anton Simeonov, Jimmy Theriault, Thomas Hasaka, Antonio Bedalov, Marisa S Bartolomei, Jeannie T Lee. 2016. "A High-Throughput Small Molecule Screen Identifies Synergism between DNA Methylation and Aurora Kinase Pathways for X Reactivation." *Proceedings of the National Academy of Sciences of the United States of America* 113 (50): 14366–71. <https://doi.org/10.1073/pnas.1617597113>.
- Lu, Hui, Ryan T. Ash, Lingjie He, Sara E. Kee, Wei Wang, Dinghui Yu, Shuang Hao, Xiangling Meng, Kerstin Ure, Aya Ito-Ishida, Bin Tang, Yaling Sun, Daoyun Ji, Jianrong Tang, Benjamin R Arenkiel, Stelios M Smirnakis, Huda Y Zoghbi. 2016. "Loss and Gain of MeCP2 Cause Similar Hippocampal Circuit Dysfunction That Is Rescued by Deep Brain Stimulation in a Rett Syndrome Mouse Model." *Neuron* 91 (4): 739–47. <https://doi.org/10.1016/j.neuron.2016.07.018>.
- Lyst, Matthew J., John Connelly, Cara Merusi, and Adrian Bird. 2016. "Sequence-Specific DNA Binding by AT-Hook Motifs in MeCP2." *FEBS Letters* 590 (17): 2927–33. <https://doi.org/10.1002/1873-3468.12328>.
- Ross, Paul D., Jacky Guy, Jim Selfridge, Bushra Kamal, Noha Bahey, K. Elizabeth Tanner, Thomas H. Gillingwater, Ross A Jones, Christopher M Loughrey, Charlotte S McCarroll, Mark E S Bailey, Adrian Bird, Stuart Cobb. 2016. "Exclusive Expression of MeCP2 in the Nervous System Distinguishes between Brain and Peripheral Rett Syndrome-like Phenotypes." *Human Molecular Genetics* 25 (20): 4389–4404. <https://doi.org/10.1093/hmg/ddw269>.
- Shah, Ruth R., Justyna Cholewa-Waclaw, Faith C. J. Davies, Katie M. Paton, Ronan Chaligne, Edith Heard, Catherine M. Abbott, and Adrian P. Bird. 2016. "Efficient and Versatile CRISPR Engineering of Human Neurons in Culture to Model Neurological Disorders." *Wellcome Open Research* 1 (November): 13. <https://doi.org/10.12688/wellcomeopenres.10011.1>.
- Tao, Jifang, Hao Wu, Amanda A. Coronado, Elizabeth de Laittre, Emily K. Osterweil, Yi Zhang, and Mark F. Bear. 2016. "Negative Allosteric Modulation of mGluR5 Partially Corrects Pathophysiology in a Mouse Model of Rett Syndrome." *The Journal of Neuroscience: The Official Journal of the Society for Neuroscience* 36 (47): 11946–58. <https://doi.org/10.1523/JNEUROSCI.0672-16.2016>.
- Yang, Lin, James E. Kirby, Hongjae Sunwoo, and Jeannie T. Lee. 2016. "Female Mice Lacking Xist RNA Show Partial Dosage Compensation and Survive to Term." *Genes & Development* 30 (15): 1747–60. <https://doi.org/10.1101/gad.281162.116>.
- Zoghbi, Huda Y. 2016. "Rett Syndrome and the Ongoing Legacy of Close Clinical Observation." *Cell* 167 (2): 293–97. <https://doi.org/10.1016/j.cell.2016.09.039>.

- Gabel, Harrison W., Benyam Kinde, Hume Stroud, Caitlin S. Gilbert, David A. Harmin, Nathaniel R. Kastan, Martin Hemberg, Daniel H. Ebert, and Michael E. Greenberg. 2015. "Disruption of DNA-Methylation-Dependent Long Gene Repression in Rett Syndrome." *Nature* 522 (7554): 89–93. <https://doi.org/10.1038/nature14319>.
- Gennarino, Vincenzo A., Callison E. Alcott, Chun-An Chen, Arindam Chaudhury, Madelyn A. Gillentine, Jill A. Rosenfeld, Sumit Parikh, James W. Wheless, Elizabeth R. Roeder, Dafne D. G. Horowitz, Erin K. Roney, Janice L. Smith, Sau W. Cheung, Wei Li, Joel R. Neilson, Christian P. Schaaf, Huda Y. Zoghbi. 2015. "NUDT21-Spanning CNVs Lead to Neuropsychiatric Disease and Altered MeCP2 Abundance via Alternative Polyadenylation." *ELife* 4 (August). <https://doi.org/10.7554/eLife.10782>.
- Hao, Shuang, Bin Tang, Zhenyu Wu, Kerstin Ure, Yaling Sun, Huifang Tao, Yan Gao, Akash J. Patel, Daniel J. Curry, Rodney C. Samaco, Huda Y. Zoghbi, Jianrong Tang. 2015. "Forniceal Deep Brain Stimulation Rescues Hippocampal Memory in Rett Syndrome Mice." *Nature* 526 (7573): 430–34. <https://doi.org/10.1038/nature15694>.
- Kamal, Bushra, David Russell, Anthony Payne, Diogo Constante, K. Elizabeth Tanner, Hanna Isaksson, Neashan Mathavan, and Stuart R. Cobb. 2015. "Biomechanical Properties of Bone in a Mouse Model of Rett Syndrome." *Bone* 71 (February): 106–14. <https://doi.org/10.1016/j.bone.2014.10.008>.
- Kinde, Benyam, Harrison W. Gabel, Caitlin S. Gilbert, Eric C. Griffith, and Michael E. Greenberg. 2015. "Reading the Unique DNA Methylation Landscape of the Brain: Non-CpG Methylation, Hydroxymethylation, and MeCP2." *Proceedings of the National Academy of Sciences of the United States of America* 112 (22): 6800–6806. <https://doi.org/10.1073/pnas.1411269112>.
- Linhoff, Michael W., Saurabh K. Garg, and Gail Mandel. 2015. "A High-Resolution Imaging Approach to Investigate Chromatin Architecture in Complex Tissues." *Cell* 163 (1): 246–55. <https://doi.org/10.1016/j.cell.2015.09.002>.
- Lombardi, Laura Marie, Steven Andrew Baker, and Huda Yahya Zoghbi. 2015. "MECP2 Disorders: From the Clinic to Mice and Back." *The Journal of Clinical Investigation* 125 (8): 2914–23. <https://doi.org/10.1172/JCI78167>.
- Lyst, Matthew J., and Adrian Bird. 2015. "Rett Syndrome: A Complex Disorder with Simple Roots." *Nature Reviews. Genetics* 16 (5): 261–75. <https://doi.org/10.1038/nrg3897>.
- Minajigi, Anand, John Froberg, Chunyao Wei, Hongjae Sunwoo, Barry Kesner, David Colognori, Derek Lessing, Bernhard Paye, Myriam Boukhali, Wilhelm Haas, Jeannie T. Lee. 2015. "Chromosomes. A Comprehensive Xist Interactome Reveals Cohesin Repulsion and an RNA-Directed Chromosome Conformation." *Science (New York, N.Y.)* 349 (6245). <https://doi.org/10.1126/science.aab2276>.
- Phillips, Mary, and Lucas Pozzo-Miller. 2015. "Dendritic Spine Dysgenesis in Autism Related Disorders." *Neuroscience Letters* 601 (August): 30–40. <https://doi.org/10.1016/j.neulet.2015.01.011>.
- Pozzo-Miller, Lucas, Sandipan Pati, and Alan K. Percy. 2015. "Rett Syndrome: Reaching for Clinical Trials." *Neurotherapeutics: The Journal of the American Society for Experimental Neurotherapeutics* 12 (3): 631–40. <https://doi.org/10.1007/s13311-015-0353-y>.
- Sztainberg, Yehezkel, Hong-mei Chen, John W. Swann, Shuang Hao, Bin Tang, Zhenyu Wu, Jianrong Tang, Zhenyu Wu, Jianrong Tang, Ying-Wooi Wan, Zhandong Liu, Frank Rigo, Huda Y. Zoghbi. 2015. "Reversal of Phenotypes in MECP2 Duplication Mice Using Genetic Rescue or Antisense Oligonucleotides." *Nature* 528 (7580): 123–26. <https://doi.org/10.1038/nature16159>.
- Wang, Hansen, Sandipan Pati, Lucas Pozzo-Miller, and Laurie C. Doering. 2015. "Targeted Pharmacological Treatment of Autism Spectrum Disorders: Fragile X and Rett Syndromes." *Frontiers in Cellular Neuroscience* 9: 55. <https://doi.org/10.3389/fncel.2015.00055>.
- Wang, Jieqi, Jan Eike Wegener, Teng-Wei Huang, Smitha Sripathy, Hector De Jesus-Cortes, Pin Xu, Stephanie Tran, Whitney Knobbe, Vid Leko, Jeremiah Britt, Ruth Starwalt, Latisha McDaniel, Chris S. Ward, Diana Parra, Benjamin Newcomb, Uyen Lao, Cynthia Nourigat, David A. Flowers, Sean Cullen, Nikolas L. Jorstad, Yue Yang, Lena Glaskova, Sebastien Vingeau, Juli Kozlitina, Michael J. Yetman, Jonanna L. Jankowsky, Sybille D. Reichardt, Holdger M. Reichardt, Jutta Gartner, Marisa S. Bartolomei, Min Fang, Keith Loeb, C. Dirk Keene, Irwin Bernstein, Margaret Goodell, Daniel J. Brat, Peter Huppke, Jeffery Neul, Antonio Bedalov, Andrew A. Pieper. 2015. "Wild-Type Microglia Do Not Reverse Pathology in Mouse Models of Rett Syndrome." *Nature* 521 (7552): E1–4. <https://doi.org/10.1038/nature14444>.

2014

- Abdala, Ana P., John M. Bissonnette, and Adrian Newman-Tancredi. 2014. "Pinpointing Brainstem Mechanisms Responsible for Autonomic Dysfunction in Rett Syndrome: Therapeutic Perspectives for 5-HT1A Agonists." *Frontiers in Physiology* 5: 205. <https://doi.org/10.3389/fphys.2014.00205>.
- Abdala, Ana P., Daniel T. Lioy, Saurabh K. Garg, Sharon J. Knopp, Julian F. R. Paton, and John M. Bissonnette. 2014. "Effect of Sarizotan, a 5-HT1a and D2-like Receptor Agonist, on Respiration in Three Mouse Models of Rett Syndrome." *American Journal of Respiratory Cell and Molecular Biology* 50 (6): 1031-39. <https://doi.org/10.1165/rcmb.2013-03720C>.
- Gadalla, Kamal K. E., Paul D. Ross, John S. Riddell, Mark E. S. Bailey, and Stuart R. Cobb. 2014. "Gait Analysis in a Mecp2 Knockout Mouse Model of Rett Syndrome Reveals Early-Onset and Progressive Motor Deficits." *PLoS One* 9 (11): e112889. <https://doi.org/10.1371/journal.pone.0112889>.
- Song, Congdi, Yana Feodorova, Jacky Guy, Leo Peichl, Katharina Laurence Jost, Hiroshi Kimura, Maria Cristina Cardoso, Adrian Bird, Heinrich Leonhardt, Boris Joffe, Irina Solovei. 2014. "DNA Methylation Reader MECP2: Cell Type- and Differentiation Stage-Specific Protein Distribution." *Epigenetics & Chromatin* 7: 17. <https://doi.org/10.1186/1756-8935-7-17>.

2013

- Buchovecky, Christie M., Misty G. Hill, Jennifer M. Borkey, Stephanie M. Kyle, and Monica J. Justice. 2013a. "A Protocol for Evaluation of Rett Syndrome Symptom Improvement by Metabolic Modulators in Mecp2-Mutant Mice." *Current Protocols in Mouse Biology* 2013. <https://doi.org/10.1002/9780470942390.mo130157>.
- Derecki, Noël C., James C. Cronk, and Jonathan Kipnis. 2013. "The Role of Microglia in Brain Maintenance: Implications for Rett Syndrome." *Trends in Immunology* 34 (3): 144-50. <https://doi.org/10.1016/j.it.2012.10.002>.
- Ebert, Daniel H., Harrison W. Gabel, Nathaniel D. Robinson, Nathaniel R. Kastan, Linda S. Hu, Sonia Cohen, Adrija J. Navarro, Matthew J. Lyst, Robert Ekiert, Adrian P. Bird, Michael E. Greenberg. 2013. "Activity-Dependent Phosphorylation of MeCP2 Threonine 308 Regulates Interaction with NCoR." *Nature* 499 (7458): 341-45. <https://doi.org/10.1038/nature12348>.
- Garg, Saurabh K., Daniel T. Lioy, Hélène Cheval, James C. McGann, John M. Bissonnette, Matthew J. Murtha, Kevin D. Foust, Brian K. Kaspar, Adrian Bird, and Gail Mandel. 2013. "Systemic Delivery of MeCP2 Rescues Behavioral and Cellular Deficits in Female Mouse Models of Rett Syndrome." *The Journal of Neuroscience: The Official Journal of the Society for Neuroscience* 33 (34): 13612-20. <https://doi.org/10.1523/JNEUROSCI.1854-13.2013>.
- Justice, Monica J., Christie M. Buchovecky, Stephanie M. Kyle, and Aleksandra Djukic. 2013. "A Role for Metabolism in Rett Syndrome Pathogenesis: New Clinical Findings and Potential Treatment Targets." *Rare Diseases (Austin, Tex.)* 1: e27265. <https://doi.org/10.4161/rdis.27265>.
- Levitt, Erica S., Barbara J. Hunnicutt, Sharon J. Knopp, John T. Williams, and John M. Bissonnette. 2013. "A Selective 5-HT1a Receptor Agonist Improves Respiration in a Mouse Model of Rett Syndrome." *Journal of Applied Physiology (Bethesda, Md.: 1985)* 115 (11): 1626-33. <https://doi.org/10.1152/jappphysiol.00889.2013>.
- Lyst, Matthew J., Robert Ekiert, Daniel H. Ebert, Cara Merusi, Jakub Nowak, Jim Selfridge, Jacky Guy, Nathaniel R. Kastan, Flavia de Lima Alves, Juri Rappsilber, Michael E. Greenberg, Adrian Bird. 2013. "Rett Syndrome Mutations Abolish the Interaction of MeCP2 with the NCoR/SMRT Co-Repressor." *Nature Neuroscience* 16 (7): 898-902. <https://doi.org/10.1038/nn.3434>.
- McLeod, F., R. Ganley, L. Williams, J. Selfridge, A. Bird, and S. R. Cobb. 2013. "Reduced Seizure Threshold and Altered Network Oscillatory Properties in a Mouse Model of Rett Syndrome." *Neuroscience* 231 (February): 195-205. <https://doi.org/10.1016/j.neuroscience.2012.11.058>.
- Samaco, Rodney C., Christopher M. McGraw, Christopher S. Ward, Yaling Sun, Jeffrey L. Neul, and Huda Y. Zoghbi. 2013. "Female Mecp2(+/-) Mice Display Robust Behavioral Deficits on Two Different Genetic Backgrounds Providing a Framework for Pre-Clinical Studies." *Human Molecular Genetics* 22 (1): 96-109. <https://doi.org/10.1093/hmg/dd5406>.
- Schweikert, Gabriele, Botond Cseke, Thomas Clouaire, Adrian Bird, and Guido Sanguinetti. 2013. "MMDiff: Quantitative Testing for Shape Changes in ChIP-Seq Data Sets." *BMC Genomics* 14 (November): 826. <https://doi.org/10.1186/1471-2164-14-826>.

2012

- Cheval, H el ene, Jacky Guy, Cara Merusi, Dina De Sousa, Jim Selfridge, and Adrian Bird. 2012. "Postnatal Inactivation Reveals Enhanced Requirement for MeCP2 at Distinct Age Windows." *Human Molecular Genetics* 21 (17): 3806–14. <https://doi.org/10.1093/hmg/dds208>.
- Derecki, No el C., James C. Cronk, Zhenjie Lu, Eric Xu, Stephen B. G. Abbott, Patrice G. Guyenet, and Jonathan Kipnis. 2012. "Wild-Type Microglia Arrest Pathology in a Mouse Model of Rett Syndrome." *Nature* 484 (7392): 105–9. <https://doi.org/10.1038/nature10907>.
- Katz, David M., Joanne E. Berger-Sweeney, James H. Eubanks, Monica J. Justice, Jeffrey L. Neul, Lucas Pozzo-Miller, Mary E. Blue, Diana Christian, Jacqueline N. Crawley, Maurizio Giustetto, Jacky Guy, C. James Howell, Miriam Kron, Sacha B. Nelson, Rodney C. Samaco, Laura R. Schaevitz, Coryse St. Hillaire-Clarke, Juan L. Young, Huda Y. Zoghbi, Laura A. Mamounas. 2012. "Preclinical Research in Rett Syndrome: Setting the Foundation for Translational Success." *Disease Models & Mechanisms* 5 (6): 733–45. <https://doi.org/10.1242/dmm.011007>.
- Robinson, Lianne, Jacky Guy, Leanne McKay, Emma Brockett, Rosemary C. Spike, Jim Selfridge, Dina De Sousa, Cara Merusi, Gernot Riedel, Adrian Bird, Stuart Cobb. 2012. "Morphological and Functional Reversal of Phenotypes in a Mouse Model of Rett Syndrome." *Brain: A Journal of Neurology* 135 (Pt 9): 2699–2710. <https://doi.org/10.1093/brain/aws096>.
- Samaco, Rodney C., Caleigh Mandel-Brehm, Christopher M. McGraw, Chad A. Shaw, Bryan E. McGill, and Huda Y. Zoghbi. 2012. "Crh and Oprm1 Mediate Anxiety-Related Behavior and Social Approach in a Mouse Model of MECP2 Duplication Syndrome." *Nature Genetics* 44 (2): 206–11. <https://doi.org/10.1038/ng.1066>.
- Yazdani, Morteza, Rub en Deogracias, Jacky Guy, Raymond A. Poot, Adrian Bird, and Yves-Alain Barde. 2012. "Disease Modeling Using Embryonic Stem Cells: MeCP2 Regulates Nuclear Size and RNA Synthesis in Neurons." *Stem Cells (Dayton, Ohio)* 30 (10): 2128–39. <https://doi.org/10.1002/stem.1180>.

2011

- Cohen, Sonia, Harrison W. Gabel, Martin Hemberg, Ashley N. Hutchinson, L. Amanda Sadacca, Daniel H. Ebert, David A. Harmin, Rachel S. Greenberg, Vanessa K. Verdine, Zhaolan Zhou, William C. Wetsel, Anne E. West, Michael E. Greenberg. 2011. "Genome-Wide Activity-Dependent MeCP2 Phosphorylation Regulates Nervous System Development and Function." *Neuron* 72 (1): 72–85. <https://doi.org/10.1016/j.neuron.2011.08.022>.
- Guy, Jacky, H el ene Cheval, Jim Selfridge, and Adrian Bird. 2011. "The Role of MeCP2 in the Brain." *Annual Review of Cell and Developmental Biology* 27: 631–52. <https://doi.org/10.1146/annurev-cellbio-092910-154121>.
- Lioy, Daniel T., Saurabh K. Garg, Caitlin E. Monaghan, Jacob Raber, Kevin D. Foust, Brian K. Kaspar, Petra G. Hirrlinger, Frank Kirchhoff, John Bissonnette, Nurit Ballas, Gail Mandel. 2011. "A Role for Glia in the Progression of Rett's Syndrome." *Nature* 475 (7357): 497–500. <https://doi.org/10.1038/nature10214>.
- McGraw, Christopher M., Rodney C. Samaco, and Huda Y. Zoghbi. 2011. "Adult Neural Function Requires MeCP2." *Science (New York, N.Y.)* 333 (6039): 186. <https://doi.org/10.1126/science.1206593>.

2010

- Chao, Hsiao-Tuan, Hongmei Chen, Rodney C. Samaco, Mingshan Xue, Maria Chahrouh, Jong Yoo, Jeffrey L. Neul, Shiaoqing Gong, Hui-Chen Lu, Nathaniel Heintz, Marc Ekker, John L. Rubenstein, Jeffery L. Noebels, Christian Rosenmund, Huda Y. Zoghbi. 2010. "Dysfunction in GABA Signalling Mediates Autism-like Stereotypies and Rett Syndrome Phenotypes." *Nature* 468 (7321): 263–69. <https://doi.org/10.1038/nature09582>.

Cobb, Stuart, Jacky Guy, and Adrian Bird. 2010. "Reversibility of Functional Deficits in Experimental Models of Rett Syndrome." *Biochemical Society Transactions* 38 (2): 498-506. <https://doi.org/10.1042/BST0380498>.

Skene, Peter J., Robert S. Illingworth, Shaun Webb, Alastair R. W. Kerr, Keith D. James, Daniel J. Turner, Rob Andrews, and Adrian P. Bird. 2010. "Neuronal MeCP2 Is Expressed at near Histone-Octamer Levels and Globally Alters the Chromatin State." *Molecular Cell* 37 (4): 457-68. <https://doi.org/10.1016/j.molcel.2010.01.030>.