

137.Cerqua M, **Foiani M**, Boccaccio C, Comoglio PM, Altintas DM. The integrated stress response drives MET oncogene overexpression in cancers. *EMBO J.* 2025 Feb;44(4):1107-1130. [https://doi: 10.1038/s44318-024-00338-4](https://doi.org/10.1038/s44318-024-00338-4). Epub 2025 Jan 7. PMID: 39774381

136.Marx C, Qing X, Gong Y, Kirkpatrick J, Siniuk K, Beznoussenko GV, Kidiyoor GR, Kirtay M, Buder K, Koch P, Westermann M, Bruhn C, Brown EJ, Xu X, **Foiani M**, Wang ZQ. DNA damage response regulator ATR licenses PINK1-mediated mitophagy. *Nucleic Acids Res.* 2025 Feb 27;53(5):gkaf178. [https://doi: 10.1093/nar/gkaf178](https://doi.org/10.1093/nar/gkaf178). PMID: 40105243

135.Cera MR, Bastianello G, Purushothaman D, Andronache A, Ascione F, Robusto M, Fagà G, Pasi M, Meroni G, Li Q, Choudhary R, Varasi M, **Foiani M**, Mercurio C. A multiparametric screen uncovers FDA-approved small molecules that potentiate the nuclear mechano-dysfunctions in ATR-defective cells. *Sci Rep.* 2024 Dec 28;14(1):30786. [https://doi: 10.1038/s41598-024-80837-w](https://doi.org/10.1038/s41598-024-80837-w). PMID: 39730498

134.Ligorio F, Vingiani A, Torelli T, Sposetti C, Drufula L, Iannelli F, Zanenga L, Depretto C, Folli S, Scaperrotta G, Capri G, Bianchi GV, Ferraris C, Martelli G, Maugeri I, Provenzano L, Nichetti F, Agnelli L, Lobefaro R, Fucà G, Fotia G, Mariani L, Morelli D, Ladisa V, De Santis MC, Lozza L, Trecate G, Belfiore A, Brich S, Bertolotti A, Lorenzini D, Ficchi A, Martinetti A, Sottotetti E, Arata A, Corsetto P, Sorrentino L, Rediti M, Salvadori G, Minucci S, **Foiani M**, Apolone G, Pagani M, Pruneri G, de Braud F, Vernieri C. Early downmodulation of tumor glycolysis predicts response to fasting-mimicking diet in triple-negative breast cancer patients. *Cell Metab.* 2025 Feb 4;37(2):330-344.e7. [https://doi: 10.1016/j.cmet.2024.11.004](https://doi.org/10.1016/j.cmet.2024.11.004). Epub 2024 Dec 17. PMID: 39694040

133.Bastianello, G.; Kidiyoor, G. R.; Lowndes, C.; Li, Q.; Bonnal, R.; Godwin, J.; Iannelli, F.; Drufula, L.; Bason, R.; Orsenigo, F.; Parazzoli, D.; Pavani, M.; Cancila, V.; Piccolo, S.; Scita, G.; Ciliberto, A.; Tripodo, C.; Pagani, M.; **Foiani, M.** Mechanical Stress during Confined Migration Causes Aberrant Mitoses and C-MYC Amplification. *Proc Natl Acad Sci U S A* 2024, 121 (29). <https://doi.org/10.1073/pnas.2404551121>.

132.Lucca, C.; Ferrari, E.; Shubassi, G.; Ajazi, A.; Choudhary, R.; Bruhn, C.; Matafora, V.; Bachi, A.; **Foiani, M.** Sch9(S6K) Controls DNA Repair and DNA Damage Response Efficiency in Aging Cells. *Cell Rep* 2024, 43 (6), 114281. <https://doi.org/10.1016/j.celrep.2024.114281>.

131.Ribeiro, C. F.; Rodrigues, S.; Bastos, D. C.; Fanelli, G. N.; Pakula, H.; **Foiani, M.**; Zadra, G.; Loda, M. Blocking Lipid Synthesis Induces DNA Damage in Prostate Cancer and Increases Cell Death Caused by PARP Inhibition. *Sci Signal* 2024, 17 (831). <https://doi.org/10.1126/scisignal.adh1922>.

130.Cancila, V.; Morello, G.; Bertolazzi, G.; Chan, A. S.-Y.; Bastianello, G.; Paysan, D.; Jaynes, P. W.; Schiavoni, G.; Mattei, F.; Piconese, S.; Revuelta, M. V.; Noto, F.; De Ninno, A.; Cammarata, I.; Pagni, F.; Venkatachalapathy, S.; Sangaletti, S.; Di Napoli, A.; Vacca, D.; Lonardi, S.; Lorenzi, L.; Ferreri, A. J. M.; Belmonte, B.; Varano, G.; Colombo, M. P.; Bicciato, S.; Inghirami, G.; Cerchietti, L.; Ponzoni, M.; Zappasodi, R.; Facchetti, F.; **Foiani, M.**; Casola, S.; Jeyasekharan, A. D.; Tripodo, C. Germinal Center Dark Zone Harbors ATR-Dependent Determinants of T-Cell Exclusion That Are Also Identified in Aggressive Lymphoma. *United States* March 18, 2024. <https://doi.org/10.21203/rs.3.rs-4093618/v1>.

129.Bastianello, G.; Porcella, G.; Beznoussenko, G. V.; Kidiyoor, G.; Ascione, F.; Li, Q.; Cattaneo, A.; Matafora, V.; Disanza, A.; Quarto, M.; Mironov, A. A.; Oldani, A.; Barozzi, S.; Bachi, A.; Costanzo, V.; Scita, G.; **Foiani, M.** Cell Stretching Activates an ATM Mechano-Transduction Pathway That Remodels Cytoskeleton and Chromatin. *Cell Rep* 2023, 42 (12), 113555. <https://doi.org/10.1016/j.celrep.2023.113555>.

128. Bastianello, G.; **Foiani, M.** Mechanisms Controlling the Mechanical Properties of the Nuclei. *Curr Opin Cell Biol* 2023, 84, 102222. <https://doi.org/10.1016/j.ceb.2023.102222>.

127. Choudhary, R.; Niska-Blakie, J.; Adhil, M.; Liberi, G.; Achar, Y. J.; Giannattasio, M.; **Foiani, M.** Sen1 and Rrm3 Ensure Permissive Topological Conditions for Replication Termination. *Cell Rep* 2023, 42 (7), 112747. <https://doi.org/10.1016/j.celrep.2023.112747>.

126. Cazzoli, R.; Romeo, F.; Pallavicini, I.; Peri, S.; Romanenghi, M.; Pérez-Valencia, J. A.; Hagag, E.; Ferrucci, F.; Elgendy, M.; Vittorio, O.; Pece, S.; **Foiani, M.**; Westermarck, J.; Minucci, S. Endogenous PP2A Inhibitor CIP2A Degradation by Chaperone-Mediated Autophagy Contributes to the Antitumor Effect of Mitochondrial Complex I Inhibition. *Cell Rep* 2023, 42 (6), 112616. <https://doi.org/10.1016/j.celrep.2023.112616>.

125. Frittoli, E.; Palamidessi, A.; Iannelli, F.; Zanardi, F.; Villa, S.; Barzaghi, L.; Abdo, H.; Cancila, V.; Beznoussenko, G. V.; Della Chiara, G.; Pagani, M.; Malinverno, C.; Bhattacharya, D.; Pisati, F.; Yu, W.; Galimberti, V.; Bonizzi, G.; Martini, E.; Mironov, A. A.; Gioia, U.; Ascione, F.; Li, Q.; Havas, K.; Magni, S.; Lavagnino, Z.; Pennacchio, F. A.; Maiuri, P.; Caponi, S.; Mattarelli, M.; Martino, S.; d'Adda di Fagagna, F.; Rossi, C.; Lucioni, M.; Tancredi, R.; Pedrazzoli, P.; Vecchione, A.; Petrini, C.; Ferrari, F.; Lanzuolo, C.; Bertalot, G.; Nader, G.; **Foiani, M.**; Piel, M.; Cerbino, R.; Giavazzi, F.; Tripodo, C.; Scita, G. Tissue Fluidification Promotes a cGAS-STING Cytosolic DNA Response in Invasive Breast Cancer. *Nat Mater* 2023, 22 (5), 644–655. <https://doi.org/10.1038/s41563-022-01431-x>.

124. Bruhn, C.; Bastianello, G.; **Foiani, M.** Cancer Cell Histone Density Links Global Histone Acetylation, Mitochondrial Proteome and Histone Acetylase Inhibitor Sensitivity. *Commun Biol* 2022, 5 (1), 882. <https://doi.org/10.1038/s42003-022-03846-3>.

123. Sladitschek-Martens, H. L.; Guarnieri, A.; Brumana, G.; Zanconato, F.; Battilana, G.; Xiccato, R. L.; Panciera, T.; Forcato, M.; Biciato, S.; Guzzardo, V.; Fassan, M.; Ulliana, L.; Gandin, A.; Tripodo, C.; **Foiani, M.**; Brusatin, G.; Cordenonsi, M.; Piccolo, S. YAP/TAZ Activity in Stromal Cells Prevents Ageing by Controlling cGAS-STING. *Nature* 2022, 607 (7920), 790–798. <https://doi.org/10.1038/s41586-022-04924-6>.

122. Purushothaman, D.; Bianchi, L. F.; Penkov, D.; Poli, A.; Li, Q.; Vermezovic, J.; Pramotton, F. M.; Choudhary, R.; Pennacchio, F. A.; Sommariva, E.; **Foiani, M.**; Gauthier, N.; Maiuri, P.; Blasi, F. The Transcription Factor PREP1(PKNOX1) Regulates Nuclear Stiffness, the Expression of LINC Complex Proteins and Mechanotransduction. *Commun Biol* 2022, 5 (1), 456. <https://doi.org/10.1038/s42003-022-03406-9>.

121. Ajazi, A.; **Foiani, M.** Vps30/Atg6/BECN1 at the Crossroads between Cell Metabolism and DNA Damage Response. *Autophagy* 2022, 18 (5), 1202–1204. <https://doi.org/10.1080/15548627.2022.2038502>.

120. Vernieri, C.; Fucà, G.; Ligorio, F.; Huber, V.; Vingiani, A.; Iannelli, F.; Raimondi, A.; Rinchai, D.; Frigè, G.; Belfiore, A.; Lalli, L.; Chiodoni, C.; Cancila, V.; Zanardi, F.; Ajazi, A.; Cortellino, S.; Vallacchi, V.; Squarcina, P.; Cova, A.; Pesce, S.; Frati, P.; Mall, R.; Corsetto, P. A.; Rizzo, A. M.; Ferraris, C.; Folli, S.; Garassino, M. C.; Capri, G.; Bianchi, G.; Colombo, M. P.; Minucci, S.; **Foiani, M.**; Longo, V. D.; Apolone, G.; Torri, V.; Pruneri, G.; Bedognetti, D.; Rivoltini, L.; de Braud, F. Fasting-Mimicking Diet Is Safe and Reshapes Metabolism and Antitumor Immunity in Patients with Cancer. *Cancer Discov* 2022, 12 (1), 90–107. <https://doi.org/10.1158/2159-8290.CD-21-0030>.

119. Stadiotti, I.; Santoro, R.; Scopece, A.; Pirola, S.; Guarino, A.; Polvani, G.; Maione, A. S.; Ascione, F.; Li, Q.; Delia, D.; **Foiani, M.**; Pompilio, G.; Sommariva, E. Pressure Overload

Activates DNA-Damage Response in Cardiac Stromal Cells: A Novel Mechanism Behind Heart Failure With Preserved Ejection Fraction? *Front Cardiovasc Med* 2022, 9, 878268. <https://doi.org/10.3389/fcvm.2022.878268>.

118.Achar, Y. J.; **Foiani, M.** Topology of RNA:DNA Hybrids and R-Loops in Yeast. *Methods Mol Biol* 2022, 2528, 317–328. https://doi.org/10.1007/978-1-0716-2477-7_21.

117.Wallis, S. S.; Ventimiglia, L. N.; Otigbah, E.; Infante, E.; Cuesta-Geijo, M. A.; Kidiyoor, G. R.; Carbajal, M. A.; Fleck, R. A.; **Foiani, M.**; Garcia-Manyes, S.; Martin-Serrano, J.; Agromayor, M. The ESCRT Machinery Counteracts Nesprin-2G-Mediated Mechanical Forces during Nuclear Envelope Repair. *Dev Cell* 2021, 56 (23), 3192-3202.e8. <https://doi.org/10.1016/j.devcel.2021.10.022>.

116.Kosar, M.; Piccini, D.; **Foiani, M.**; Giannattasio, M. A Rapid Method to Visualize Human Mitochondrial DNA Replication through Rotary Shadowing and Transmission Electron Microscopy. *Nucleic Acids Res* 2021, 49 (21), e121. <https://doi.org/10.1093/nar/gkab770>.

115.Sáinz-Jaspeado, M.; Smith, R. O.; Plunde, O.; Pawelzik, S.-C.; Jin, Y.; Nordling, S.; Ding, Y.; Aspenström, P.; Hedlund, M.; Bastianello, G.; Ascione, F.; Li, Q.; Demir, C. S.; Fernando, D.; Daniel, G.; Franco-Cereceda, A.; Kroon, J.; **Foiani, M.**; Petrova, T. V.; Kilimann, M. W.; Bäck, M.; Claesson-Welsh, L. Palmdelphin Regulates Nuclear Resilience to Mechanical Stress in the Endothelium. *Circulation* 2021, 144 (20), 1629–1645. <https://doi.org/10.1161/CIRCULATIONAHA.121.054182>.

114.Bampton, A.; Gatt, A.; Humphrey, J.; Cappelli, S.; Bhattacharya, D.; Foti, S.; Brown, A.-L.; Asi, Y.; Low, Y. H.; **Foiani, M.**; Raj, T.; Buratti, E.; Fratta, P.; Lashley, T. HnRNP K Mislocalisation Is a Novel Protein Pathology of Frontotemporal Lobar Degeneration and Ageing and Leads to Cryptic Splicing. *Acta Neuropathol* 2021, 142 (4), 609–627. <https://doi.org/10.1007/s00401-021-02340-0>.

113.Ajazi, A.; Bruhn, C.; Shubassi, G.; Lucca, C.; Ferrari, E.; Cattaneo, A.; Bachi, A.; Manfrini, N.; Biffo, S.; Martini, E.; Minucci, S.; Vernieri, C.; **Foiani, M.** Endosomal Trafficking and DNA Damage Checkpoint Kinases Dictate Survival to Replication Stress by Regulating Amino Acid Uptake and Protein Synthesis. *Dev Cell* 2021, 56 (18), 2607-2622.e6. <https://doi.org/10.1016/j.devcel.2021.08.019>.

112.Kosar M.; Giannattasio, M.; Piccini, D.; Maya-Mendoza, A.; García-Benítez, F.; Bartkova, J.; Barroso, S. I.; Gaillard, H.; Martini, E.; Restuccia, U.; Ramirez-Otero, M. A.; Garre, M.; Verga, E.; Andújar-Sánchez, M.; Maynard, S.; Hodny, Z.; Costanzo, V.; Kumar, A.; Bachi, A.; Aguilera, A.; Bartek, J.; **Foiani, M.** The Human Nucleoporin Tpr Protects Cells from RNA-Mediated Replication Stress. *Nat Commun* 2021, 12 (1), 3937. <https://doi.org/10.1038/s41467-021-24224-3>.

111.Kidiyoor, G. R.; Li, Q.; Bastianello, G.; Bruhn, C.; Giovannetti, I.; Mohamood, A.; Beznoussenko, G. V.; Mironov, A.; Raab, M.; Piel, M.; Restuccia, U.; Matafora, V.; Bachi, A.; Barozzi, S.; Parazzoli, D.; Frittoli, E.; Palamidessi, A.; Panciera, T.; Piccolo, S.; Scita, G.; Maiuri, P.; Havas, K. M.; Zhou, Z.-W.; Kumar, A.; Bartek, J.; Wang, Z.-Q.; **Foiani, M.** ATR Is Essential for Preservation of Cell Mechanics and Nuclear Integrity during Interstitial Migration. *Nat Commun* 2020, 11 (1), 4828. <https://doi.org/10.1038/s41467-020-18580-9>.

110.Bruhn, C.; Ajazi, A.; Ferrari, E.; Lanz, M. C.; Batrin, R.; Choudhary, R.; Walvekar, A.; Laxman, S.; Longhese, M. P.; Fabre, E.; Smolka, M. B.; **Foiani, M.** The Rad53(CHK1/CHK2)-Spt21(NPAT) and Tel1(ATM) Axes Couple Glucose Tolerance to Histone Dosage and Subtelomeric Silencing. *Nat Commun* 2020, 11 (1), 4154. <https://doi.org/10.1038/s41467-020-17961-4>.

109.Achar, Y. J.; **Foiani, M.** Ubiquitinated Fanconi ID Complex Embraces DNA. *Cell Res* 2020, 30 (7), 554–555. <https://doi.org/10.1038/s41422-020-0345-2>.

108.Kong, W.-J.; Vernieri, C.; **Foiani, M.**; Jiang, J.-D. Berberine in the Treatment of Metabolism-Related Chronic Diseases: A Drug Cloud (dCloud) Effect to Target Multifactorial Disorders. *Pharmacol Ther* 2020, 209, 107496. <https://doi.org/10.1016/j.pharmthera.2020.107496>.

107.Achar, Y. J.; Adhil, M.; Choudhary, R.; Gilbert, N.; **Foiani, M.** Negative Supercoil at Gene Boundaries Modulates Gene Topology. *Nature* 2020, 577 (7792), 701–705. <https://doi.org/10.1038/s41586-020-1934-4>.

106.Bruhn, C.; **Foiani, M.** A Model of DNA Damage Response Activation at Stalled Replication Forks by SPRTN. *Nat Commun* 2019, 10 (1), 5671. <https://doi.org/10.1038/s41467-019-13610-7>.

105.Elgendy, M.; Cirò, M.; Hosseini, A.; Weizmann, J.; Mazzeella, L.; Ferrari, E.; Cazzoli, R.; Curigliano, G.; DeCensi, A.; Bonanni, B.; Budillon, A.; Pelicci, P. G.; Janssens, V.; Ogris, M.; Baccarini, M.; Lanfranccone, L.; Weckwerth, W.; **Foiani, M.**; Minucci, S. Combination of Hypoglycemia and Metformin Impairs Tumor Metabolic Plasticity and Growth by Modulating the PP2A-GSK3 β -MCL-1 Axis. *Cancer Cell* 2019, 35 (5), 798-815.e5. <https://doi.org/10.1016/j.ccell.2019.03.007>.

104.Vernieri, C.; Pusceddu, S.; Fucà, G.; Indelicato, P.; Centonze, G.; Castagnoli, L.; Ferrari, E.; Ajazi, A.; Pupa, S.; Casola, S.; **Foiani, M.**; Mazzaferro, V.; Pruneri, G.; Milione, M.; de Braud, F. Impact of Systemic and Tumor Lipid Metabolism on Everolimus Efficacy in Advanced Pancreatic Neuroendocrine Tumors (pNETs). *Int J Cancer* 2019, 144 (7), 1704–1712. <https://doi.org/10.1002/ijc.32042>.

103.Achar, Y. J.; **Foiani, M.** An Error-Prone Polymerase in the Fight against Cancer. *Cell* 2019, 176 (6), 1241–1243. <https://doi.org/10.1016/j.cell.2019.02.011>.

102.Rossi, S. E.; **Foiani, M.**; Giannattasio, M. Dna2 Processes behind the Fork Long ssDNA Flaps Generated by Pif1 and Replication-Dependent Strand Displacement. *Nat Commun* 2018, 9 (1), 4830. <https://doi.org/10.1038/s41467-018-07378-5>.

101.Gay, S.; Piccini, D.; Bruhn, C.; Ricciardi, S.; Soffientini, P.; Carotenuto, W.; Biffo, S.; **Foiani, M.** A Mad2-Mediated Translational Regulatory Mechanism Promoting S-Phase Cyclin Synthesis Controls Origin Firing and Survival to Replication Stress. *Mol Cell* 2018, 70 (4), 628-638.e5. <https://doi.org/10.1016/j.molcel.2018.04.020>.

100.Brambati, A.; Zardoni, L.; Achar, Y. J.; Piccini, D.; Galanti, L.; Colosio, A.; **Foiani, M.**; Liberi, G. Dormant Origins and Fork Protection Mechanisms Rescue Sister Forks Arrested by Transcription. *Nucleic Acids Res* 2018, 46 (3), 1227–1239. <https://doi.org/10.1093/nar/gkx945>.

99.Wang, Y.-H.; Hariharan, A.; Bastianello, G.; Toyama, Y.; Shivashankar, G. V.; **Foiani, M.**; Sheetz, M. P. DNA Damage Causes Rapid Accumulation of Phosphoinositides for ATR Signaling. *Nat Commun* 2017, 8 (1), 2118. <https://doi.org/10.1038/s41467-017-01805-9>.

98.Ferrari, E.; Bruhn, C.; Peretti, M.; Cassani, C.; Carotenuto, W. V.; Elgendy, M.; Shubassi, G.; Lucca, C.; Bermejo, R.; Varasi, M.; Minucci, S.; Longhese, M. P.; **Foiani, M.** PP2A Controls Genome Integrity by Integrating Nutrient-Sensing and Metabolic Pathways with the DNA

Damage Response. *Mol Cell* 2017, 67 (2), 266-281.e4. <https://doi.org/10.1016/j.molcel.2017.05.027>.

97. Muñoz, M. J.; Nieto Moreno, N.; Giono, L. E.; Cambindo Botto, A. E.; Dujardin, G.; Bastianello, G.; Lavore, S.; Torres-Méndez, A.; Menck, C. F. M.; Blencowe, B. J.; Irimia, M.; **Foiani, M.**; Kornblihtt, A. R. Major Roles for Pyrimidine Dimers, Nucleotide Excision Repair, and ATR in the Alternative Splicing Response to UV Irradiation. *Cell Rep* 2017, 18 (12), 2868–2879. <https://doi.org/10.1016/j.celrep.2017.02.066>.

96. Achar, Y. J.; **Foiani, M.** Coordinating Replication with Transcription. *Adv Exp Med Biol* 2017, 1042, 455–487. https://doi.org/10.1007/978-981-10-6955-0_20.

95. Vernieri, C.; Casola, S.; **Foiani, M.**; Pietrantonio, F.; de Braud, F.; Longo, V. Targeting Cancer Metabolism: Dietary and Pharmacologic Interventions. *Cancer Discov* 2016, 6 (12), 1315–1333. <https://doi.org/10.1158/2159-8290.CD-16-0615>.

94. Kidiyoor, G. R.; Kumar, A.; **Foiani, M.** ATR-Mediated Regulation of Nuclear and Cellular Plasticity. *DNA Repair (Amst)* 2016, 44, 143–150. <https://doi.org/10.1016/j.dnarep.2016.05.020>.

93. Awasthi, P.; **Foiani, M.**; Kumar, A. ATM and ATR Signaling at a Glance. *J Cell Sci* 2016, 129 (6), 1285. <https://doi.org/10.1242/jcs.188631>.

92. Awasthi, P.; **Foiani, M.**; Kumar, A. ATM and ATR Signaling at a Glance. *J Cell Sci* 2015, 128 (23), 4255–4262. <https://doi.org/10.1242/jcs.169730>.

91. Rossi, S. E.; Ajazi, A.; Carotenuto, W.; **Foiani, M.**; Giannattasio, M. Rad53-Mediated Regulation of Rrm3 and Pif1 DNA Helicases Contributes to Prevention of Aberrant Fork Transitions under Replication Stress. *Cell Rep* 2015, 13 (1), 80–92. <https://doi.org/10.1016/j.celrep.2015.08.073>.

90. Gay, S.; **Foiani, M.** Nuclear Envelope and Chromatin, Lock and Key of Genome Integrity. *Int Rev Cell Mol Biol* 2015, 317, 267–330. <https://doi.org/10.1016/bs.ircmb.2015.03.001>.

89. Elgendy, M.; Ciro, M.; Abdel-Aziz, A. K.; Belmonte, G.; Dal Zuffo, R.; Mercurio, C.; Miracco, C.; Lanfrancone, L.; **Foiani, M.**; Minucci, S. Beclin 1 Restrains Tumorigenesis through Mcl-1 Destabilization in an Autophagy-Independent Reciprocal Manner. *Nat Commun* 2014, 5, 5637. <https://doi.org/10.1038/ncomms6637>.

88. Giannattasio, M.; Zwicky, K.; Follonier, C.; **Foiani, M.**; Lopes, M.; Branzei, D. Visualization of Recombination-Mediated Damage Bypass by Template Switching. *Nat Struct Mol Biol* 2014, 21 (10), 884–892. <https://doi.org/10.1038/nsmb.2888>.

87. Kumar, A.; Mazzanti, M.; Mistrik, M.; Kosar, M.; Beznoussenko, G. V.; Mironov, A. A.; Garrè, M.; Parazzoli, D.; Shivashankar, G. V.; Scita, G.; Bartek, J.; **Foiani, M.** ATR Mediates a Checkpoint at the Nuclear Envelope in Response to Mechanical Stress. *Cell* 2014, 158 (3), 633–646. <https://doi.org/10.1016/j.cell.2014.05.046>.

86. Foiani, M.; Bartek, J. Golgi Feels DNA's Pain. *Cell* 2014, 156 (3), 392–393. <https://doi.org/10.1016/j.cell.2014.01.030>.

85. Achar, Y. J.; **Foiani, M.** Dangerous Liaisons: MYCN Meets Condensins. *Cell Cycle* 2014, 13 (8), 1225–1226. <https://doi.org/10.4161/cc.28569>.

84. Alzu, A.; Bermejo, R.; Begnis, M.; Lucca, C.; Piccini, D.; Carotenuto, W.; Saponaro, M.; Brambati, A.; Cocito, A.; **Foiani, M.**; Liberi, G. Senataxin Associates with Replication Forks to Protect Fork Integrity across RNA-Polymerase-II-Transcribed Genes. *Cell* 2012, 151 (4), 835–846. <https://doi.org/10.1016/j.cell.2012.09.041>.
83. Bermejo, R.; Kumar, A.; **Foiani, M.** Preserving the Genome by Regulating Chromatin Association with the Nuclear Envelope. *Trends Cell Biol* 2012, 22 (9), 465–473. <https://doi.org/10.1016/j.tcb.2012.05.007>.
82. Lai, M. S.; **Foiani, M.** Dna2 Offers Support for Stalled Forks. *Cell* 2012, 149 (6), 1181–1183. <https://doi.org/10.1016/j.cell.2012.05.021>.
81. Botrugno, O. A.; Robert, T.; Vanoli, F.; **Foiani, M.**; Minucci, S. Molecular Pathways: Old Drugs Define New Pathways: Non-Histone Acetylation at the Crossroads of the DNA Damage Response and Autophagy. *Clin Cancer Res* 2012, 18 (9), 2436–2442. <https://doi.org/10.1158/1078-0432.CCR-11-0767>.
80. Bermejo, R.; Lai, M. S.; **Foiani, M.** Preventing Replication Stress to Maintain Genome Stability: Resolving Conflicts between Replication and Transcription. *Mol Cell* 2012, 45 (6), 710–718. <https://doi.org/10.1016/j.molcel.2012.03.001>.
79. Shubassi, G.; Robert, T.; Vanoli, F.; Minucci, S.; **Foiani, M.** Acetylation: A Novel Link between Double-Strand Break Repair and Autophagy. *Cancer Res* 2012, 72 (6), 1332–1335. <https://doi.org/10.1158/0008-5472.CAN-11-3172>.
78. Lopes, J.; Piazza, A.; Bermejo, R.; Kriegsman, B.; Colosio, A.; Teulade-Fichou, M.-P.; **Foiani, M.**; Nicolas, A. G-Quadruplex-Induced Instability during Leading-Strand Replication. *EMBO J* 2011, 30 (19), 4033–4046. <https://doi.org/10.1038/emboj.2011.316>.
77. Bermejo, R.; Capra, T.; Jossen, R.; Colosio, A.; Frattini, C.; Carotenuto, W.; Cocito, A.; Doksani, Y.; Klein, H.; Gómez-González, B.; Aguilera, A.; Katou, Y.; Shirahige, K.; **Foiani, M.** The Replication Checkpoint Protects Fork Stability by Releasing Transcribed Genes from Nuclear Pores. *Cell* 2011, 146 (2), 233–246. <https://doi.org/10.1016/j.cell.2011.06.033>.
76. Gómez-González, B.; García-Rubio, M.; Bermejo, R.; Gaillard, H.; Shirahige, K.; Marín, A.; **Foiani, M.**; Aguilera, A. Genome-Wide Function of THO/TREX in Active Genes Prevents R-Loop-Dependent Replication Obstacles. *EMBO J* 2011, 30 (15), 3106–3119. <https://doi.org/10.1038/emboj.2011.206>.
75. Robert, T.; Vanoli, F.; Chiolo, I.; Shubassi, G.; Bernstein, K. A.; Rothstein, R.; Botrugno, O. A.; Parazzoli, D.; Oldani, A.; Minucci, S.; **Foiani, M.** HDACs Link the DNA Damage Response, Processing of Double-Strand Breaks and Autophagy. *Nature* 2011, 471 (7336), 74–79. <https://doi.org/10.1038/nature09803>.
74. Ferrari, E.; Lucca, C.; **Foiani, M.** A Lethal Combination for Cancer Cells: Synthetic Lethality Screenings for Drug Discovery. *Eur J Cancer* 2010, 46 (16), 2889–2895. <https://doi.org/10.1016/j.ejca.2010.07.031>.
73. Fachinetti, D.; Bermejo, R.; Cocito, A.; Minardi, S.; Katou, Y.; Kanoh, Y.; Shirahige, K.; Azvolinsky, A.; Zakian, V. A.; **Foiani, M.** Replication Termination at Eukaryotic Chromosomes Is Mediated by Top2 and Occurs at Genomic Loci Containing Pausing Elements. *Mol Cell* 2010, 39 (4), 595–605. <https://doi.org/10.1016/j.molcel.2010.07.024>.
72. Liberi, G.; **Foiani, M.** The Double Life of Holliday Junctions. *Cell Res* 2010, 20 (6), 611–613. <https://doi.org/10.1038/cr.2010.73>.

71. Brnzei, D.; **Foiani, M.** Maintaining Genome Stability at the Replication Fork. *Nat Rev Mol Cell Biol* 2010, 11 (3), 208–219. <https://doi.org/10.1038/nrm2852>.
70. Brnzei, D.; **Foiani, M.** Leaping Forks at Inverted Repeats. *Genes Dev* 2010, 24 (1), 5–9. <https://doi.org/10.1101/gad.1884810>.
69. Bermejo, R.; Capra, T.; Gonzalez-Huici, V.; Fachinetti, D.; Cocito, A.; Natoli, G.; Katou, Y.; Mori, H.; Kurokawa, K.; Shirahige, K.; **Foiani, M.** Genome-Organizing Factors Top2 and Hmo1 Prevent Chromosome Fragility at Sites of S Phase Transcription. *Cell* 2009, 138 (5), 870–884. <https://doi.org/10.1016/j.cell.2009.06.022>.
68. Brnzei, D.; **Foiani, M.** The Checkpoint Response to Replication Stress. *DNA Repair (Amst)* 2009, 8 (9), 1038–1046. <https://doi.org/10.1016/j.dnarep.2009.04.014>.
67. Doksani, Y.; Bermejo, R.; Fiorani, S.; Haber, J. E.; **Foiani, M.** Replicon Dynamics, Dormant Origin Firing, and Terminal Fork Integrity after Double-Strand Break Formation. *Cell* 2009, 137 (2), 247–258. <https://doi.org/10.1016/j.cell.2009.02.016>.
66. Bernstein, K. A.; Shor, E.; Sunjevaric, I.; Fumasoni, M.; Burgess, R. C.; **Foiani, M.**; Brnzei, D.; Rothstein, R. Sgs1 Function in the Repair of DNA Replication Intermediates Is Separable from Its Role in Homologous Recombinational Repair. *EMBO J* 2009, 28 (7), 915–925. <https://doi.org/10.1038/emboj.2009.28>.
65. Sollier, J.; Driscoll, R.; Castellucci, F.; **Foiani, M.**; Jackson, S. P.; Brnzei, D. The *Saccharomyces Cerevisiae* Esc2 and Smc5-6 Proteins Promote Sister Chromatid Junction-Mediated Intra-S Repair. *Mol Biol Cell* 2009, 20 (6), 1671–1682. <https://doi.org/10.1091/mbc.e08-08-0875>.
64. Bermejo, R.; Katou, Y.-M.; Shirahige, K.; **Foiani, M.** ChIP-on-Chip Analysis of DNA Topoisomerases. *Methods Mol Biol* 2009, 582, 103–118. https://doi.org/10.1007/978-1-60761-340-4_9.
63. Brnzei, D.; Vanoli, F.; **Foiani, M.** SUMOylation Regulates Rad18-Mediated Template Switch. *Nature* 2008, 456 (7224), 915–920. <https://doi.org/10.1038/nature07587>.
62. Bermejo, R.; Brnzei, D.; **Foiani, M.** Cohesion by Topology: Sister Chromatids Interlocked by DNA. *Genes Dev* 2008, 22 (17), 2297–2301. <https://doi.org/10.1101/gad.1719308>.
61. Brnzei, D.; **Foiani, M.** Regulation of DNA Repair throughout the Cell Cycle. *Nat Rev Mol Cell Biol* 2008, 9 (4), 297–308. <https://doi.org/10.1038/nrm2351>.
60. Tavecchio, M.; Simone, M.; Erba, E.; Chiolo, I.; Liberi, G.; **Foiani, M.**; D'Incalci, M.; Damia, G. Role of Homologous Recombination in Trabectedin-Induced DNA Damage. *Eur J Cancer* 2008, 44 (4), 609–618. <https://doi.org/10.1016/j.ejca.2008.01.003>.
59. Brnzei, D.; **Foiani, M.** Template Switching: From Replication Fork Repair to Genome Rearrangements. *Cell* 2007, 131 (7), 1228–1230. <https://doi.org/10.1016/j.cell.2007.12.007>.
58. Brnzei, D.; **Foiani, M.** RecQ Helicases Queuing with Srs2 to Disrupt Rad51 Filaments and Suppress Recombination. *Genes Dev* 2007, 21 (23), 3019–3026. <https://doi.org/10.1101/gad.1624707>.
57. Bermejo, R.; Doksani, Y.; Capra, T.; Katou, Y.-M.; Tanaka, H.; Shirahige, K.; **Foiani, M.** Top1- and Top2-Mediated Topological Transitions at Replication Forks Ensure Fork

Progression and Stability and Prevent DNA Damage Checkpoint Activation. *Genes Dev* 2007, 21 (15), 1921–1936. <https://doi.org/10.1101/gad.432107>.

56. Branzei, D.; **Foiani, M.** Interplay of Replication Checkpoints and Repair Proteins at Stalled Replication Forks. *DNA Repair (Amst)* 2007, 6 (7), 994–1003. <https://doi.org/10.1016/j.dnarep.2007.02.018>.

55. Branzei, D.; Sollier, J.; Liberi, G.; Zhao, X.; Maeda, D.; Seki, M.; Enomoto, T.; Ohta, K.; **Foiani, M.** Ubc9- and Mms21-Mediated Sumoylation Counteracts Recombinogenic Events at Damaged Replication Forks. *Cell* 2006, 127 (3), 509–522. <https://doi.org/10.1016/j.cell.2006.08.050>.

54. Branzei, D.; **Foiani, M.** The Rad53 Signal Transduction Pathway: Replication Fork Stabilization, DNA Repair, and Adaptation. *Exp Cell Res* 2006, 312 (14), 2654–2659. <https://doi.org/10.1016/j.yexcr.2006.06.012>.

53. Lopes, M.; **Foiani, M.**; Sogo, J. M. Multiple Mechanisms Control Chromosome Integrity after Replication Fork Uncoupling and Restart at Irreparable UV Lesions. *Mol Cell* 2006, 21 (1), 15–27. <https://doi.org/10.1016/j.molcel.2005.11.015>.

52. Liberi, G.; Cotta-Ramusino, C.; Lopes, M.; Sogo, J.; Conti, C.; Bensimon, A.; **Foiani, M.** Methods to Study Replication Fork Collapse in Budding Yeast. *Methods Enzymol* 2006, 409, 442–462. [https://doi.org/10.1016/S0076-6879\(05\)09026-9](https://doi.org/10.1016/S0076-6879(05)09026-9).

51. Branzei, D.; **Foiani, M.** The DNA Damage Response during DNA Replication. *Curr Opin Cell Biol* 2005, 17 (6), 568–575. <https://doi.org/10.1016/j.ceb.2005.09.003>.

50. Pellicioli, A.; **Foiani, M.** Signal Transduction: How Rad53 Kinase Is Activated. *Curr Biol* 2005, 15 (18), R769–771. <https://doi.org/10.1016/j.cub.2005.08.057>.

49. Chiolo, I.; Carotenuto, W.; Maffioletti, G.; Petrini, J. H. J.; **Foiani, M.**; Liberi, G. Srs2 and Sgs1 DNA Helicases Associate with Mre11 in Different Subcomplexes Following Checkpoint Activation and CDK1-Mediated Srs2 Phosphorylation. *Mol Cell Biol* 2005, 25 (13), 5738–5751. <https://doi.org/10.1128/MCB.25.13.5738-5751.2005>.

48. Pellicioli, A.; **Foiani, M.** Recombination at Collapsed Replication Forks: The Payoff for Survival. *Mol Cell* 2005, 18 (6), 614–615. <https://doi.org/10.1016/j.molcel.2005.05.018>.

47. Liberi, G.; Maffioletti, G.; Lucca, C.; Chiolo, I.; Baryshnikova, A.; Cotta-Ramusino, C.; Lopes, M.; Pellicioli, A.; Haber, J. E.; **Foiani, M.** Rad51-Dependent DNA Structures Accumulate at Damaged Replication Forks in Sgs1 Mutants Defective in the Yeast Ortholog of BLM RecQ Helicase. *Genes Dev* 2005, 19 (3), 339–350. <https://doi.org/10.1101/gad.322605>.

46. Cotta-Ramusino, C.; Fachinetti, D.; Lucca, C.; Doksani, Y.; Lopes, M.; Sogo, J.; **Foiani, M.** Exo1 Processes Stalled Replication Forks and Counteracts Fork Reversal in Checkpoint-Defective Cells. *Mol Cell* 2005, 17 (1), 153–159. <https://doi.org/10.1016/j.molcel.2004.11.032>.

45. Ira, G.; Pellicioli, A.; Balijja, A.; Wang, X.; Fiorani, S.; Carotenuto, W.; Liberi, G.; Bressan, D.; Wan, L.; Hollingsworth, N. M.; Haber, J. E.; **Foiani, M.** DNA End Resection, Homologous Recombination and DNA Damage Checkpoint Activation Require CDK1. *Nature* 2004, 431 (7011), 1011–1017. <https://doi.org/10.1038/nature02964>.

44. Masciadri, B.; Areces, L. B.; Carpinelli, P.; **Foiani, M.**; Draetta, G.; Fiore, F. Characterization of the BUD31 Gene of *Saccharomyces Cerevisiae*. *Biochem Biophys Res Commun* 2004, 320 (4), 1342–1350. <https://doi.org/10.1016/j.bbrc.2004.05.228>.
43. Lucca, C.; Vanoli, F.; Cotta-Ramusino, C.; Pelliccioli, A.; Liberi, G.; Haber, J.; **Foiani, M.** Checkpoint-Mediated Control of Replisome-Fork Association and Signalling in Response to Replication Pausing. *Oncogene* 2004, 23 (6), 1206–1213. <https://doi.org/10.1038/sj.onc.1207199>.
42. Liberi, G.; **Foiani, M.** Initiation of DNA Replication: A New Hint from Archaea. *Cell* 2004, 116 (1), 3–4. [https://doi.org/10.1016/s0092-8674\(03\)01072-9](https://doi.org/10.1016/s0092-8674(03)01072-9).
41. Muzi-Falconi, M.; Liberi, G.; Lucca, C.; **Foiani, M.** Mechanisms Controlling the Integrity of Replicating Chromosomes in Budding Yeast. *Cell Cycle* 2003, 2 (6), 564–567.
40. Lopes, M.; Cotta-Ramusino, C.; Liberi, G.; **Foiani, M.** Branch Migrating Sister Chromatid Junctions Form at Replication Origins through Rad51/Rad52-Independent Mechanisms. *Mol Cell* 2003, 12 (6), 1499–1510. [https://doi.org/10.1016/s1097-2765\(03\)00473-8](https://doi.org/10.1016/s1097-2765(03)00473-8).
39. Lee, S. E.; Pelliccioli, A.; Vaze, M. B.; Sugawara, N.; Malkova, A.; **Foiani, M.**; Haber, J. E. Yeast Rad52 and Rad51 Recombination Proteins Define a Second Pathway of DNA Damage Assessment in Response to a Single Double-Strand Break. *Mol Cell Biol* 2003, 23 (23), 8913–8923. <https://doi.org/10.1128/MCB.23.23.8913-8923.2003>.
38. Ira, G.; Malkova, A.; Liberi, G.; **Foiani, M.**; Haber, J. E. Srs2 and Sgs1-Top3 Suppress Crossovers during Double-Strand Break Repair in Yeast. *Cell* 2003, 115 (4), 401–411. [https://doi.org/10.1016/s0092-8674\(03\)00886-9](https://doi.org/10.1016/s0092-8674(03)00886-9).
37. Muzi-Falconi, M.; Sabbioneda, S.; Plevani, P.; **Foiani, M.** Sometimes Size Does Matter. *Eur J Cancer* 2003, 39 (10), 1337–1338. [https://doi.org/10.1016/s0959-8049\(03\)00127-8](https://doi.org/10.1016/s0959-8049(03)00127-8).
36. **Foiani, M.** Molecular Biology: Disruptive Influence. *Nature* 2003, 423 (6937), 234–235. <https://doi.org/10.1038/423234a>.
35. Muzi-Falconi, M.; Giannattasio, M.; **Foiani, M.**; Plevani, P. The DNA Polymerase Alpha-Primase Complex: Multiple Functions and Interactions. *ScientificWorldJournal* 2003, 3, 21–33. <https://doi.org/10.1100/tsw.2003.05>.
34. Giannattasio, M.; Sommariva, E.; Vercillo, R.; Lippi-Boncambi, F.; Liberi, G.; **Foiani, M.**; Plevani, P.; Muzi-Falconi, M. A Dominant-Negative MEC3 Mutant Uncovers New Functions for the Rad17 Complex and Tel1. *Proc Natl Acad Sci U S A* 2002, 99 (20), 12997–13002. <https://doi.org/10.1073/pnas.202463999>.
33. Vaze, M. B.; Pelliccioli, A.; Lee, S. E.; Ira, G.; Liberi, G.; Arbel-Eden, A.; **Foiani, M.**; Haber, J. E. Recovery from Checkpoint-Mediated Arrest after Repair of a Double-Strand Break Requires Srs2 Helicase. *Mol Cell* 2002, 10 (2), 373–385. [https://doi.org/10.1016/s1097-2765\(02\)00593-2](https://doi.org/10.1016/s1097-2765(02)00593-2).
32. Sogo, J. M.; Lopes, M.; **Foiani, M.** Fork Reversal and ssDNA Accumulation at Stalled Replication Forks Owing to Checkpoint Defects. *Science* 2002, 297 (5581), 599–602. <https://doi.org/10.1126/science.1074023>.
31. Lopes, M.; Cotta-Ramusino, C.; Pelliccioli, A.; Liberi, G.; Plevani, P.; Muzi-Falconi, M.; Newlon, C. S.; **Foiani, M.** The DNA Replication Checkpoint Response Stabilizes Stalled Replication Forks. *Nature* 2001, 412 (6846), 557–561. <https://doi.org/10.1038/35087613>.

- 30.Lee, S. E.; Pelliccioli, A.; Malkova, A.; **Foiani, M.**; Haber, J. E. The Saccharomyces Recombination Protein Tid1p Is Required for Adaptation from G2/M Arrest Induced by a Double-Strand Break. *Curr Biol* 2001, 11 (13), 1053–1057. [https://doi.org/10.1016/s0960-9822\(01\)00296-2](https://doi.org/10.1016/s0960-9822(01)00296-2).
- 29.Damia, G.; Silvestri, S.; Carrassa, L.; Filiberti, L.; Faircloth, G. T.; Liberi, G.; **Foiani, M.**; D'Incalci, M. Unique Pattern of ET-743 Activity in Different Cellular Systems with Defined Deficiencies in DNA-Repair Pathways. *Int J Cancer* 2001, 92 (4), 583–588. <https://doi.org/10.1002/ijc.1221>.
- 28.Pelliccioli, A.; Lee, S. E.; Lucca, C.; **Foiani, M.**; Haber, J. E. Regulation of Saccharomyces Rad53 Checkpoint Kinase during Adaptation from DNA Damage-Induced G2/M Arrest. *Mol Cell* 2001, 7 (2), 293–300. [https://doi.org/10.1016/s1097-2765\(01\)00177-0](https://doi.org/10.1016/s1097-2765(01)00177-0).
- 27.Liberi, G.; Chiolo, I.; Pelliccioli, A.; Lopes, M.; Plevani, P.; Muzi-Falconi, M.; **Foiani, M.** Srs2 DNA Helicase Is Involved in Checkpoint Response and Its Regulation Requires a Functional Mec1-Dependent Pathway and Cdk1 Activity. *EMBO J* 2000, 19 (18), 5027–5038. <https://doi.org/10.1093/emboj/19.18.5027>.
- 26.Foiani, M.**; Pelliccioli, A.; Lopes, M.; Lucca, C.; Ferrari, M.; Liberi, G.; Muzi Falconi, M.; Plevani, P. DNA Damage Checkpoints and DNA Replication Controls in Saccharomyces Cerevisiae. *Mutat Res* 2000, 451 (1–2), 187–196. [https://doi.org/10.1016/s0027-5107\(00\)00049-x](https://doi.org/10.1016/s0027-5107(00)00049-x).
- 25.Lee, S. E.; Pelliccioli, A.; Demeter, J.; Vaze, M. P.; Gasch, A. P.; Malkova, A.; Brown, P. O.; Botstein, D.; Stearns, T.; **Foiani, M.**; Haber, J. E. Arrest, Adaptation, and Recovery Following a Chromosome Double-Strand Break in Saccharomyces Cerevisiae. *Cold Spring Harb Symp Quant Biol* 2000, 65, 303–314. <https://doi.org/10.1101/sqb.2000.65.303>.
- 24.Pelliccioli, A.; Lucca, C.; Liberi, G.; Marini, F.; Lopes, M.; Plevani, P.; Romano, A.; Di Fiore, P. P.; **Foiani, M.** Activation of Rad53 Kinase in Response to DNA Damage and Its Effect in Modulating Phosphorylation of the Lagging Strand DNA Polymerase. *EMBO J* 1999, 18 (22), 6561–6572. <https://doi.org/10.1093/emboj/18.22.6561>.
- 23.Longhese, M. P.; **Foiani, M.**; Muzi-Falconi, M.; Lucchini, G.; Plevani, P. DNA Damage Checkpoint in Budding Yeast. *EMBO J* 1998, 17 (19), 5525–5528. <https://doi.org/10.1093/emboj/17.19.5525>.
- 22.Foiani, M.**; Ferrari, M.; Liberi, G.; Lopes, M.; Lucca, C.; Marini, F.; Pelliccioli, A.; Muzi Falconi, M.; Plevani, P. S-Phase DNA Damage Checkpoint in Budding Yeast. *Biol Chem* 1998, 379 (8–9), 1019–1023. <https://doi.org/10.1515/bchm.1998.379.8-9.1019>.
- 21.Desdouets, C.; Santocanale, C.; Drury, L. S.; Perkins, G.; **Foiani, M.**; Plevani, P.; Diffley, J. F. Evidence for a Cdc6p-Independent Mitotic Resetting Event Involving DNA Polymerase Alpha. *EMBO J* 1998, 17 (14), 4139–4146. <https://doi.org/10.1093/emboj/17.14.4139>.
- 20.Foiani, M.**; Lucchini, G.; Plevani, P. The DNA Polymerase Alpha-Primase Complex Couples DNA Replication, Cell-Cycle Progression and DNA-Damage Response. *Trends Biochem Sci* 1997, 22 (11), 424–427. [https://doi.org/10.1016/s0968-0004\(97\)01109-2](https://doi.org/10.1016/s0968-0004(97)01109-2).
- 19.Marini, F.; Pelliccioli, A.; Paciotti, V.; Lucchini, G.; Plevani, P.; Stern, D. F.; **Foiani, M.** A Role for DNA Primase in Coupling DNA Replication to DNA Damage Response. *EMBO J* 1997, 16 (3), 639–650. <https://doi.org/10.1093/emboj/16.3.639>.

18.Foiani, M.; Nadjar-Boger, E.; Capone, R.; Sagee, S.; Hashimshoni, T.; Kassir, Y. A Meiosis-Specific Protein Kinase, Ime2, Is Required for the Correct Timing of DNA Replication and for Spore Formation in Yeast Meiosis. *Mol Gen Genet* 1996, 253 (3), 278–288. <https://doi.org/10.1007/s004380050323>.

17.Ferrari, M.; Lucchini, G.; Plevani, P.; **Foiani, M.** Phosphorylation of the DNA Polymerase Alpha-Primase B Subunit Is Dependent on Its Association with the P180 Polypeptide. *J Biol Chem* 1996, 271 (15), 8661–8666. <https://doi.org/10.1074/jbc.271.15.8661>.

16.Sun, Z.; Fay, D. S.; Marini, F.; **Foiani, M.;** Stern, D. F. Spk1/Rad53 Is Regulated by Mec1-Dependent Protein Phosphorylation in DNA Replication and Damage Checkpoint Pathways. *Genes Dev* 1996, 10 (4), 395–406. <https://doi.org/10.1101/gad.10.4.395>.

15.Foiani, M.; Liberi, G.; Lucchini, G.; Plevani, P. Cell Cycle-Dependent Phosphorylation and Dephosphorylation of the Yeast DNA Polymerase Alpha-Primase B Subunit. *Mol Cell Biol* 1995, 15 (2), 883–891. <https://doi.org/10.1128/MCB.15.2.883>.

14.Foiani, M.; Marini, F.; Gamba, D.; Lucchini, G.; Plevani, P. The B Subunit of the DNA Polymerase Alpha-Primase Complex in *Saccharomyces Cerevisiae* Executes an Essential Function at the Initial Stage of DNA Replication. *Mol Cell Biol* 1994, 14 (2), 923–933. <https://doi.org/10.1128/mcb.14.2.923-933.1994>.

13.Muzi Falconi, M.; Piseri, A.; Ferrari, M.; Lucchini, G.; Plevani, P.; **Foiani, M.** De Novo Synthesis of Budding Yeast DNA Polymerase Alpha and POL1 Transcription at the G1/S Boundary Are Not Required for Entrance into S Phase. *Proc Natl Acad Sci U S A* 1993, 90 (22), 10519–10523. <https://doi.org/10.1073/pnas.90.22.10519>.

12.Bushman, J. L.; **Foiani, M.;** Cigan, A. M.; Paddon, C. J.; Hinnebusch, A. G. Guanine Nucleotide Exchange Factor for Eukaryotic Translation Initiation Factor 2 in *Saccharomyces Cerevisiae*: Interactions between the Essential Subunits GCD2, GCD6, and GCD7 and the Regulatory Subunit GCN3. *Mol Cell Biol* 1993, 13 (8), 4618–4631. <https://doi.org/10.1128/mcb.13.8.4618-4631.1993>.

11.Santocanale, C.; **Foiani, M.;** Lucchini, G.; Plevani, P. The Isolated 48,000-Dalton Subunit of Yeast DNA Primase Is Sufficient for RNA Primer Synthesis. *J Biol Chem* 1993, 268 (2), 1343–1348.

10.Foiani, M.; Cigan, A. M.; Paddon, C. J.; Harashima, S.; Hinnebusch, A. G. GCD2, a Translational Repressor of the GCN4 Gene, Has a General Function in the Initiation of Protein Synthesis in *Saccharomyces Cerevisiae*. *Mol Cell Biol* 1991, 11 (6), 3203–3216. <https://doi.org/10.1128/mcb.11.6.3203-3216.1991>.

9.Cigan, A. M.; **Foiani, M.;** Hannig, E. M.; Hinnebusch, A. G. Complex Formation by Positive and Negative Translational Regulators of GCN4. *Mol Cell Biol* 1991, 11 (6), 3217–3228. <https://doi.org/10.1128/mcb.11.6.3217-3228.1991>.

8.Foiani, M.; Santocanale, C.; Plevani, P.; Lucchini, G. A Single Essential Gene, PRI2, Encodes the Large Subunit of DNA Primase in *Saccharomyces Cerevisiae*. *Mol Cell Biol* 1989, 9 (7), 3081–3087. <https://doi.org/10.1128/mcb.9.7.3081-3087.1989>.

7.Foiani, M.; Lindner, A. J.; Hartmann, G. R.; Lucchini, G.; Plevani, P. Affinity Labeling of the Active Center and Ribonucleoside Triphosphate Binding Site of Yeast DNA Primase. *J Biol Chem* 1989, 264 (4), 2189–2194.

6. Plevani, P.; **Foiani, M.**; Muzi Falconi, M.; Pizzagalli, A.; Santocanale, C.; Francesconi, S.; Valsasnini, P.; Comedini, A.; Piatti, S.; Lucchini, G. The Yeast DNA Polymerase-Primase Complex: Genes and Proteins. *Biochim Biophys Acta* 1988, 951 (2–3), 268–273. [https://doi.org/10.1016/0167-4781\(88\)90096-6](https://doi.org/10.1016/0167-4781(88)90096-6).

5. Presta, M.; **Foiani, M.**; Rusnati, M.; Joseph-Silverstein, J.; Maier, J. A.; Ragnotti, G. High Molecular Weight Immunoreactive Basic Fibroblast Growth Factor-like Proteins in Rat Pituitary and Brain. *Neurosci Lett* 1988, 90 (3), 308–313. [https://doi.org/10.1016/0304-3940\(88\)90207-8](https://doi.org/10.1016/0304-3940(88)90207-8).

4. Lucchini, G.; Francesconi, S.; **Foiani, M.**; Badaracco, G.; Plevani, P. Yeast DNA Polymerase--DNA Primase Complex; Cloning of PRI 1, a Single Essential Gene Related to DNA Primase Activity. *EMBO J* 1987, 6 (3), 737–742. <https://doi.org/10.1002/j.1460-2075.1987.tb04815.x>.

3. Badaracco, G.; Valsasnini, P.; **Foiani, M.**; Benfante, R.; Lucchini, G.; Plevani, P. Mechanism of Initiation of in Vitro DNA Synthesis by the Immunopurified Complex between Yeast DNA Polymerase I and DNA Primase. *Eur J Biochem* 1986, 161 (2), 435–440. <https://doi.org/10.1111/j.1432-1033.1986.tb10463.x>.

2. Plevani, P.; **Foiani, M.**; Valsasnini, P.; Badaracco, G.; Cheriathundam, E.; Chang, L. M. Polypeptide Structure of DNA Primase from a Yeast DNA Polymerase-Primase Complex. *J Biol Chem* 1985, 260 (11), 7102–7107.

1. Plevani, P.; Magni, G.; **Foiani, M.**; Chang, L. M.; Badaracco, G. De Novo DNA Synthesis by Yeast DNA Polymerase I Associated with Primase Activity. *Adv Exp Med Biol* 1984, 179, 281–286. https://doi.org/10.1007/978-1-4684-8730-5_28.