

## List of up to 20 principal publications

1. **Patel K.J.**, and Neuberger, M.S. (1993). 'Antigen presentation by the B cell antigen receptor is driven by the  $\alpha/\beta$  sheath and occurs independently of its cytoplasmic tyrosines.' **Cell**. 74, 939-946.
2. **Patel K.J.**, Yu.V, Lee.H.L, Corcoran..A, Thistlewaite. F.C, Evans. M, Colledge.W, Friedman. L, Ponder. B.A.J and Venkitaraman. A.R. (1998). 'Involvement of Brca2 in DNA repair'. **Molecular Cell**. 1, 347-357.
3. Pace P, Johnson M, Tan WMT, Mosedale G, Ong C, Hoatlin M, deWinter J, Joenje H, Gergely F and **Patel K.J** (2002). 'FANCE: The link between Fanconi anaemia complex assembly and activity'. **EMBOJ**. 21. 13, 3414-3423.
4. Vandenberg C, Gergely F, Ong C, Pace P, Mallery D, Hiom K, and **Patel K.J.** (2003). 'BRCA1-Independent Ubiquitination of FANCD2'. **Molecular Cell**. 12, 247-254.
5. Niedzwiedz W, Mosedale G, Johnson M, Ong C, Pace P, and **Patel K.J** (2004). 'The Fanconi anemia gene FANCC promotes homologous recombination and error prone DNA repair'. **Molecular Cell**. 15. 607-620.
6. Mosedale G, Niedzwiedz W, Alpi A, Perrina F, Leal J, Langevin F, Johnson M, Pace P and **Patel K.J** (2005). 'The Vertebrate Hef orthologue is a component of the Fanconi Anaemia tumour suppressor pathway'. **Nature Structural and Molecular Biology**. 12 (9). 763-771.
7. Simpson LJ, Ross AL, Szüts D, Alviani A, Oestergaard VH, **Patel K.J** and Sale JE (2006). 'RAD18-independent ubiquitination of proliferating-cell nuclear antigen in the avian cell line DT40'. **EMBO Reports**. 7 (9): 927-932.
8. Alpi A, Langevin F, Mosedale M, Muchida Y, Datta A and **Patel K.J** (2007). 'UBE2T, the FA core complex and FANCD2 are recruited independently to chromatin: A basis for the regulation of FANCD2 monoubiquitination'. **Molecular and Cellular Biology** 27 (24). 8421-8430.
9. Oestergaard V, Langevin F, Kuiken H, Pace P, Niedzwiedz W, Simpson L, Ohzeki M, Takata M, Sale J and **Patel K.J** (2007). 'Deubiquitination of FANCD2 is required for DNA crosslink repair'. **Molecular Cell**. 28 (5): 798-809.
10. Alpi A, Pace P, Babu MM, **Patel K.J** (2008). 'Mechanistic insight into site-restricted monoubiquitination of FANCD2 by Ube2t, FANCL, and FANCI'. **Molecular Cell** 32(6). 767-777.
11. Rosado IV, Niedzwiedz W, Alpi AF, **Patel K.J** (2009). 'The Walker B motif in avian FANCM is required to limit sister chromatid exchanges but is dispensable for DNA crosslink repair'. **Nucleic Acids Research** Jul;37(13):4360-70.
12. Xhang XY, Langenick J, Traynor D, Babu M, Kay R, **Patel K.J** (2009). 'XPF and not the Fanconi anaemia or the TLS polymerase Rev3 is responsible

for extreme sensitivity to cisplatin in Dictyostelium Discoideum' (2009). **PLOS Genetics**. 5 (9). E1000645.doi:10.1371/journal.pgen.1000645

13. Pace P, Mosedale G, Hodskinson MR, Rosado IV, Sivsubraminium M, **Patel K.J** (2010). 'Ku70 corrupts DNA repair in the absence of the Fanconi Anaemia pathway'. **Science** Jul 9;329 (5988):219-23.
14. Crossan GP, van der Weyden L, Rosado IV, Langevin F, Gaillard PH, McIntyre RE; Sanger Mouse Genetics Project, Gallagher F, Kettunen MI, Lewis DY, Brindle K, Arends MJ, Adams DJ, **Patel K.J** (2011). 'Disruption of mouse Slx4, a regulator of structure-specific nucleases, phenocopies Fanconi anemia'. **Nature Genetics**. 43:147-52.
15. Langevin F, Crossan GP, Rosado IV, Arends MJ, **Patel K.J** (2011). 'The Fanconi Anaemia DNA repair pathway counteracts the toxic effects of naturally produced aldehydes'. **Nature**. 375: (53-58).
16. Rosado IV, Langevin F, Crossan GP, Takata M, **Patel K.J** (2011). 'Formaldehyde catabolism is essential in cells deficient for the Fanconi anemia DNA-repair pathway'. **Nature Structural and Molecular Biology**. 2011 Nov 18.(12) 1432 - 4.
17. Garaycochea JI, Crossan GP, Langevin F, Daly M, Arends MJ, **Patel K.J** (2012). 'Genotoxic consequences of endogenous aldehydes on mouse haematopoietic stem cell function'. **Nature**. 489:571-575.
18. Hodskinson MG, Silhan J, Crossan GP, Garaycochea JI, Mukherjee S, Johnson CM, Schärer OD, **Patel KJ** (2014). 'Mouse SLX4 is a tumour suppressor that stimulates the activity of the nuclease XPF-ERCC1 in DNA crosslink repair'. **Molecular Cell** 54(3):472-84
19. Rajendra E, Oestergaard V, Langevin F, Wang M, Dornan G, **Patel K.J\*** and Passmore LJ\* (2014). 'The genetic and biochemical basis of FANCD2 monoubiquitination'. **Molecular Cell** 54(5):858-69 (\*Joint communicating authors)
20. Oberbeck, N, Langevin F, King, G, Wind, N, Crossan G.P\* and **Patel K.J\*** (2014). 'Maternal aldehyde elimination during pregnancy preserves the fetal genome'. **Molecular Cell** 55 - in Press (\*Joint communicating authors)