Prof Deb K PAL

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Academic Appointments

Professor of Paediatric Epilepsy & Consultant in Paediatric Neurology, King's Health Partners	2009 -
Research Scientist and Assoc Research Scientist, Columbia University Medical Center	2003 - 2009

Education And Qualifications

Postdoctoral Fellow in Statistical Genetics Columbia University, New York	2000-2003
Neurosciences (PhD), University College London, UK	1995-1998
Epidemiology (MSc), London School of Hygiene and Tropical Medicine, UK	1994-1995
Membership of the UK Royal College of Physicians (MRCP Paediatrics)	1991
Doctor of Medicine (MB BChir), Cambridge University, UK	1985-1988
Natural Sciences (BA Honours), Corpus Christi College, Cambridge University, UK	1982-1985

Active Grant Support

European Research Commission, €14,000,000, Mechanisms of Epileptogenesis (Co-I)	2013-2018
Psychiatry Research Trust, £126,000, Clinical Research Training Fellowship (Supervisor)	2013-2015
Waterloo Foundation, £305,000, Programme on Idiopathic Focal Epilepsy (PI)	2013-2015
Medical Research Council, £2,043,889, Brain Networks in Epilepsy: (Co-I)	2013-2017
Medical Research Council, £251,485, Clinical Research Training Fellowship (Supervisor)	2013-2015
Biomedical Research Centre for Mental Health, £1,402,802, Biomarkers and Genomics (Co-I)	2012-2017

Selected Bibliography (of 75)

1. **Pal DK,** Evgrafov OV, Tabares P, Zhang FL, Durner M, Greenberg DA. BRD2 (RING3) is a probable major susceptibility gene for common juvenile myoclonic epilepsy. *Am J Hum Genet,* 2003;73(2):261-270.
2. Strug LJ, Clarke T, Greenberg DA, **Pal DK**. Centrotemporal sharp wave EEG trait in Rolandic Epilepsy maps to *ELP4, Eur J Hum Genet,* 17(9):1171-81*;* 2009.
3. Strug LJ, Hodge SE, **Pal DK**, Rohde C. A pure likelihood approach to the analysis of genetic association data: an alternative to Bayesian and Frequentist analysis*, Eur J Hum Genet,* 2010 Aug;18(8):933-41.
4. **Pal DK,** Pong AW, Chung WK. Genetic evaluation and genetic counseling in the epilepsies, *Nat Rev Neurol.* 2010 Aug;6(8):445-53.
5. **Pal DK**, Lieberman P, Clarke T, Strug LJ. Pleiotropic effects of the 11p13 locus on speech dyspraxia and susceptibility to Rolandic epilepsy, *Genes, Brain and Behaviour*, 2010 9(8):1004-1012.
6. Strug LJ, Addis L, Chiang T, **Pal DK**. The genetics of reading disability in an often excluded sample: novel loci for reading disability in rolandic epilepsy map to 1q42 and 7q21. PLoS One, 2012, 7(7) e40696.
7. Lesca G, Rudolf G, Bruneau N, et al. *GRIN2A* mutations in acquired epileptic aphasia and related childhood focal epilepsies and encephalopathies. *Nature Genetics*. 45, 9, p. 1061-1066.
8. Addis L, Chiang T, Clarke T, Strug LJ, **Pal DK**. Evidence for linkage of migraine in Rolandic Epilepsy Families to known 1q23.1-2 (*FHM2*) and novel 17q22 loci. *Genes, Brain and Behav*, 2014 Mar;13(3):333-40.
9. Euro Epinomics-RES Consortium, Epilepsy Phenome/Genome P, Epi KC. De novo mutations in synaptic transmission genes including *DNM1* cause epileptic encephalopathies. *Am J Hum Genet* 2014;95:360-370.
10. Lemke JR, Hendrickx R, Geider K, et al. *GRIN2B* mutations in West syndrome and intellectual disability with focal epilepsy. *Ann Neurol* 2014;75:147-154.
11. Nava C, Dalle C, Rastetter A, et al. De novo mutations in *HCN1* cause early infantile epileptic encephalopathy. *Nat Genet* 2014;46:640-645.
12. Schubert J, Siekierska A, Langlois M, et al. Mutations in *STX1B*, encoding a presynaptic protein, cause fever-associated epilepsy syndromes. *Nat Genet* 2014;46:1327-1332.
13. Suls A, Jaehn JA, Kecskes A, et al. De novo loss-of-function mutations in *CHD2* cause a fever-sensitive myoclonic epileptic encephalopathy sharing features with Dravet syndrome. *Am J Hum Genet* 2013;93:967-975.
14. Derkach A, Addis L, Houlston RS, **Pal DK**, Strug LJ. Association Analysis Using Next Generation Sequence Data: The Robust Variance Score Statistic. *Bioinformatics* 2014 Aug 1;30(15):2179-88.
15. Li W, Tomlinson I, Houlston R, Dobbins S, **Pal DK,** Strug LJ. Prioritizing Rare Variants with Conditional Likelihood Ratios. *Hum Hered*. 2015;79(1):5-13. doi: 10.1159/000371579. Epub 2015 Feb 3.
16. Syrbe S, Hedrich UB, Riesch E, EuroEPINOMICS RES. De novo loss- or gain-of-function mutations in *KCNA2* cause epileptic encephalopathy. *Nat Genet*. 2015 Mar 9. doi: 10.1038/ng.3239.