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Research outputs

Rescue of synaptosomal glutamate release defects in tau transgenic mice by the tau aggregation inhibitor hydromethylthionine

Cranston, A., Kraev, I., Stewart, M. G., Horsley, D., Robinson, L., Dreesen, E. S., Armstrong, P., Palliyil, S., Harrington, C., Wischik, C. & Riedel, G. (Corresponding Author), Sept 2024, In: Cellular Signalling. 121, 11 p., 111269.

LETc inhibits α -Syn aggregation and ameliorates motor deficiencies in the L62 mouse model of synucleinopathy

Schwab, K. (Corresponding Author), Frahm, S., Magbagbeolu, M., Horsley, D., Goatman, E., Melis, V., Theuring, F., Ishaq, A., Storey, J. M. D., Harrington, C., Wischik, C. & Riedel, G., 5 May 2024, In: European Journal of Pharmacology. 970, 50 p., 176505.

Assays for the Screening and Characterization of Tau Aggregation Inhibitors

Horsley, D., Rickard, J. E., Vorley, T., Leeper, M. F., Wischik, C. M. & Harrington, C. R. (Corresponding Author), 24 Mar 2024, *Tau Protein: Methods and Protocols*. 2 ed. Vol. 2754. p. 93-104 12 p. (Methods in molecular biology (Clifton, N.J.); vol. 2754).

Alpha-Synuclein transgenic mice, h- α -SynL62, display α -Syn aggregation and a dopaminergic phenotype reminiscent of Parkinson's disease

Frahm, S., Melis, V., Horsley, D., Rickard, J., Riedel, G., Fadda, P., Scherma, M., Harrington, C., Wischik, C., Theuring, F. & Schwab, K., 26 Feb 2018, In: Behavioural Brain Research. 339, p. 153-168 16 p.

A Protein Aggregation Inhibitor, Leuco-Methylthioninium Bis(Hydromethanesulfonate), Decreases α -Synuclein Inclusions in a Transgenic Mouse Model of Synucleinopathy

Schwab, K., Frahm, S., Horsley, D., Rickard, J. E., Melis, V., Goatman, E. A., Magbagbeolu, M., Douglas, M., Leith, M. G., Baddeley, T. C., Storey, J. M. D., Riedel, G., Wischik, C. M., Harrington, C. R. (Corresponding Author) & Theuring, F., 10 Jan 2018, In: Frontiers in Molecular Neuroscience. 10, 15 p., 447.

Assays for the Screening and Characterization of Tau Aggregation Inhibitors

Rickard, J. E., Horsley, D., Wischik, C. M. & Harrington, C. R., 15 Dec 2016, *Tau Protein: Methods and Protocols*. Smet-Nocca , C. (ed.). Springer , Vol. 1523. p. 129-140 12 p. (Methods in Molecular Biology; vol. 1523).

Different pathways of molecular pathophysiology underlie cognitive and motor tauopathy phenotypes in transgenic models for Alzheimer's disease and frontotemporal lobar degeneration

Melis, V., Zabke, C., Stamer, K., Magbagbeolu, M., Schwab, K., Marshall, P., Weh, R. W., Bachmann, S., Deiana, S., Moreau, P. H., Davidson, K., Harrington, K. A., Rickard, J. E., Horsley, D., Garman, R., Mazurkiewicz, M., Niewiadomska, G., Wischik, C. M., Harrington, C. R. & Riedel, G. & 1 others, Theuring, F., Jun 2015, In: Cellular and Molecular Life Sciences. 72, 11, p. 2199-2222 24 p.

Effects of oxidized and reduced forms of methylthioninium in two transgenic mouse tauopathy models

Melis, V., Magbagbeolu, M., Rickard, J. E., Horsley, D., Davidson, K., Harrington, K. A., Goatman, K., Goatman, E. A., Deiana, S., Close, S. P., Zabke, C., Stamer, K., Dietze, S., Schwab, K., Storey, J. M. D., Harrington, C. R., Wischik, C. M., Theuring, F. & Riedel, G., Jun 2015, In: Behavioural Pharmacology. 26, 4, p. 353-368 16 p.

Cellular Models of Aggregation-Dependent Template-Directed Proteolysis to Characterize Tau Aggregation Inhibitors for Treatment of Alzheimer's Disease

Harrington, C. R., Storey, J. M. D., Clunas, S., Harrington, K. A., Horsley, D., Ishaq, A., Kemp, S. J., Larch, C. P., Marshall, C., Nicoll, S. L., Rickard, J. E., Simpson, M., Sinclair, J. P., Storey, L. J. & Wischik, C. M., 24 Apr 2015, In: The Journal of Biological Chemistry. 290, 17, p. 10862-10875 14 p.

Complex Disposition of Methylthioninium Redox Forms Determines Efficacy in Tau Aggregation Inhibitor Therapy for Alzheimer's Disease

Baddeley, T. C., McCaffrey, J., Storey, J. M. D., Cheung, J. K. S., Melis, V., Horsley, D., Harrington, C. R. & Wischik, C. M., Jan 2015, In: Journal of Pharmacology and Experimental Therapeutics. 352, 1, p. 110-118 9 p.

New phenothiazine diaminium compounds are tau protein aggregation inhibitors, useful to treat e.g. Alzheimer's disease, Pick's disease, progressive supranuclear palsy, frontotemporal dementia and frontotemporal lobar degeneration syndromes

Baddeley, T. (Inventor), Clunas, S. (Inventor), Harrington, C. R. (Inventor), Horsley, D. (Inventor), Ishaq, A. (Inventor), Khan, K. (Inventor), Loh, Y. S. (Inventor), Marshall, C. (Inventor), Rickard, J. E. (Inventor), Simpson, M. (Inventor), Sinclair, J. P. (Inventor), Storey, J. M. D. (Inventor), Williamson, C. (Inventor), Wischik, C. M. (Inventor) & Wood, B. A. (Inventor), 16 Aug 2012, Patent No. WO2012107706-A1, Priority date 11 Feb 2011

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Methods of chemical synthesis and purification of diaminophenothiazinium compounds including methylthioninium chloride (MTC): methods of treatment of a tauopathy condition comprising the use of thioninium compounds

Wischik, C. M. (Inventor), Rickard, J. E. (Inventor), Harrington, C. R. (Inventor), Horsley, D. (Inventor), Storey, J. M. D. (Inventor), Marshall, C. (Inventor) & Sinclair, J. P. (Inventor), 15 Jun 2010, Patent No. US7,737,138

Ligands for aggregated tau molecules: WO2010034982

Kemp, S. J. (Inventor), Storey, J. M. D. (Inventor), Rickard, J. E. (Inventor), Harrington, C. R. (Inventor), Horsley, D. (Inventor), Wischik, C. M. (Inventor), Clunas, S. (Inventor) & Heinrich, T. (Inventor), 1 Apr 2010, Patent No. WO2010/034982

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Wischik, C. M. (Inventor), Horsley, D. (Inventor), Rickard, J. E. (Inventor) & Harrington, C. R. (Inventor), 2003, Patent No. WO 03/007933; published 30.01.03

Materials and methods relating to protein aggregation in neurodegenerative disease: WO2002059150

Wischik, C. M. (Inventor), Rickard, J. E. (Inventor), Horsley, D. (Inventor) & Harrington, C. R. (Inventor), 1 Aug 2002, Patent No. PCT/GB02/00005; published 1.08.02

Materials and methods relating to protein aggregation in neurodegenerative disease: WO2002055720

Wischik, C. M. (Inventor), Horsley, D. (Inventor), Rickard, J. E. (Inventor) & Harrington, C. R. (Inventor), 2002, Patent No. PCT/GB02/00153; published 18.07.02

Neurofibrillary labels

Wischik, C. M. (Inventor), Harrington, C. R. (Inventor), Rickard, J. E. (Inventor) & Horsley, D. (Inventor), 2002, Patent No. WO 02/075318 A2; published 26.09.02

Impacts

Discovery and commercialisation of an entirely new drug for the treatment of Alzheimer's disease

Wischik, C. (Participant), Harrington, C. (Participant), Storey, J. (Participant), (Participant), Horsley, D. (Participant), Baddeley, T. (Participant), Kemp, S. (Participant), Sinclair, J. (Participant), (Participant), Theuring, F. (Participant), Stamer, F. (Participant) & Marshall, C. (Participant)

Discovery and development of a new drug for the treatment of dementia

Wischik, C. (Coordinator), Harrington, C. (Coordinator), Storey, J. (Participant), (Participant) & Horsley, D. (Participant)