JENNY A. GREIG

Address: 125 S. 31st Street, Suite 1300, Philadelphia, PA 19104-3403
Email: greig@upenn.edu

CAREER HISTORY

May 2017 – Present	**Research Director, Liver Metabolic Disease** **Gene Therapy Program (GTP), University of Pennsylvania, USA**
Jan. 2014 – Apr. 2017	**Senior Research Investigator** **GTP, University of Pennsylvania, USA**
Jan. 2010 – Dec. 2013	**Postdoctoral Researcher** **GTP, University of Pennsylvania, USA**
Oct. 2009 – Dec. 2009	**Research Assistant** **British Heart Foundation Glasgow Cardiovascular Research Centre (BHF GCRC), University of Glasgow, UK**
Oct. 2006 – Oct. 2009	**Ph.D., British Heart Foundation Studentship** **BHF GCRC, University of Glasgow, UK**
Sept. 2002 – June 2006	**First Class Pharmacology B.Sc. (Hons)** **Institute of Biomedical and Life Sciences (IBLS), University of Glasgow, UK**

PUBLICATIONS

GREIG, J.A., NORDIN, J.M.L., DRAPER, C., BELL, P., & WILSON, J.M. (2018) AAV8 Gene Therapy Rescues the Newborn Phenotype of a Mouse Model of Crigler-Najjar. *Hum Gene Ther.*

GREIG, J.A., LIMBERIS, M.P., BELL, P., CHEN, S.-J., CALCEDO, R., RADER, D.J., & WILSON, J.M. (2017) Non-Clinical Study Examining AAV8.TBG.hLDLR Vector-Associated Toxicity in Chow-Fed Wild-Type and LDLR+/- Rhesus Macaques. *Hum Gene Ther Clin Dev.*, **28**(1): 39-50.

GREIG, J.A., LIMBERIS, M.P., BELL, P., CHEN, S.-J., CALCEDO, R., RADER, D.J., & WILSON, J.M. (2017) Nonclinical Pharmacology/Toxicology Study of AAV8.TBG.mLDLR and AAV8.TBG.hLDLR in a Mouse Model of Homozygous Familial Hypercholesterolemia. *Hum Gene Ther Clin Dev.*, **28**(1): 28-38

GREIG, J.A., WANG, Q., REICHERTER, A.L., CHEN, S.-J., HANLON, A.L., TIPPER, C.H., CLARK, K.R., WADSWORTH, S., WANG, L., & WILSON, J.M. (2017) Characterization of Adeno-Associated Viral Vector-Mediated Human Factor VIII Gene Therapy in Hemophilia A Mice. *Hum Gene Ther.*, Advanced Online

GREIG, J.A., NORDIN, J.M., BOTE, E., MAKARON, L., GARNETT, M.E., KATTENHORN, L.M., BELL, P., GOODE, T., & WILSON, J.M. (2016) Impact of intravenous infusion time on AAV8 vector pharmacokinetics, safety, and liver transduction in cynomolgus macaques. *Mol Ther Methods Clin Dev.*, **3**:16079.

GREIG, J.A., CALCEDO, R., GRANT, R.L., PENG, H., MEDINA-JASZEK, C.A., AHONKHAI, O., QIN, Q., ROY, S., TRETIAKOVA, A.P. & WILSON, J.M. (2016) Intramuscular administration of AAV overcomes pre-existing neutralizing antibodies in rhesus macaques. *Vaccine*, **34**(50): 6323-6329.

GREIG, J.A., PENG, H., OHLSTEIN, J., MEDINA-JASZEK, C.A., AHONKHAI, O., MENTZINGER, A., GRANT, R.L., ROY, S., CHEN, S.-J., BELL, P., TRETIAKOVA, A.P. & WILSON, J.M. (2014) Intramuscular injection of AAV8 in mice and macaques is associated with substantial hepatic targeting and transgene expression. *PLOS ONE*, 9(11).

WANG, L., LOUBOUTIN, J.P., BELL, P., **GREIG, J.A.**, LI, Y., WU, D. & WILSON, J.M. (2011) Muscle-directed gene therapy for hemophilia B with more efficient and less immunogenic AAV vectors. *Journal of Thrombosis and Haemostasis*, **9**(10): 2009-19.

KANE, N.M., NOWROUZI, A., MUKHERJEE, S., BLUNDELL, M.P., **GREIG, J.A.**, LEE, W.K., HOUSLAY, M.D., MILLIGAN, G., MOUNTFORD, J.C., VON KALLE, C., SCHMIDT, M., THRASHER, A.J. & BAKER, A.H. (2010) Lentivirus-mediated reprogramming of somatic cells in the absence of transgenic transcription factors. *Molecular Therapy*, **18**(12): 2139-45.

GREIG, J.A., SHIRLEY, R., GRAHAM, D., DENBY, L., DOMINICZAK, A.F., WORK, L.M. & BAKER, A.H. (2010) Vascular-Targeting Anti-Oxidant Therapy in a Model of Hypertension and Stroke. *Journal of Cardiovascular Pharmacology*, **56**(6): 642-650.

ALBA, R., BRADSHAW, A.C., COUGHLAN, L., DENBY, L., MCDONALD, R.A., WADDINGTON, S.N., BUCKLEY, S.M., **GREIG, J.A.**, PARKER, A.L., MILLER, A.M., WANG, H., LIEBER, A., VAN ROOIJEN, N., MCVEY, J.H., NICKLIN, S.A. & BAKER, A.H. (2010) Biodistribution and retargeting of FX-binding ablated adenovirus serotype 5 vectors. *Blood*, **116**(15): 2656-64.

CARUSO, P., MACLEAN, M.R., KHANIN, R., MCCLURE, J., SOON, E., SOUTHGATE, M., MACDONALD, R., **GREIG, J.A.**, ROBERTSON, K., MASSON, R., DENBY, L., DEMPSIE, Y., LONG, L., MORRELL, N.W., & BAKER, A.H. (2010) Dynamic changes in lung miRNA profiles during the development of pulmonary hypertension due to chronic hypoxia and monocrotaline. *Arteriosclerosis, Thrombosis, and Vascular Biology.* **30**(4): 716-23.

GREIG, J.A., BUCKLEY, S.M., WADDINGTON, S.N., PARKER, A.L., BHELLA, D., PINK, R., RAHIM, A.A., MORITA, T., NICKLIN, S.A., MCVEY, J.H. & BAKER, A.H. (2009) Influence of coagulation factor X on *in vitro* and *in vivo* gene delivery by adenovirus (Ad) 5, Ad35, and chimeric Ad5/Ad35 vectors. *Molecular Therapy*, **17**(10): 1683-91.

WADDINGTON, S.N., MCVEY, J.H., BHELLA, D., PARKER, A.L., BARKER, K., ATODA, H., PINK, R., BUCKLEY, S.M., **GREIG, J.A.**, DENBY, L., CUSTERS, J., MORITA, T., FRANCISCHETTI, I.M., MONTEIRO, R.Q., BAROUCH, D.H., VAN ROOIJEN, N., NAPOLI, C., HAVENGA, M.J., NICKLIN, S.A. & BAKER, A.H. (2008) Adenovirus serotype 5 hexon mediates liver gene transfer. *Cell*, **132**: 397-409.

ABSTRACTS

GREIG, J.A., NORDIN, J.M.L., DRAPER, C., MCMENAMIN, D., CHROSCINSKI, E.A., BELL, P., GRAY, J.T., RICHMAN, L.K., & WILSON, J.M. (2017) Evaluation of Efficacy and Safety in a Dose-Escalating Nonclinical Study of a Clinical Candidate Vector in a Mouse Model of Crigler-Najjar. Abstract from American Society of Gene & Cell Therapy (ASGCT) Annual Meeting poster presentation published in Molecular Therapy, **25**(S1), S312.

ASHLEY, S.N., NORDIN, J.M.L., DRAPER, C., **GREIG, J.A.,** & WILSON, J.M. (2017) AAV Gene Therapy for Phenylketonuria. Abstract from American Society of Gene & Cell Therapy (ASGCT) Annual Meeting poster presentation published in Molecular Therapy, **25**(S1), S312-3.

GREIG, J.A., WANG, Q., REICHERTER, A.L., BOTE, E., MCMENAMIN, D., DRAPER, C., CHEN, S., HANLON, A.L., GOODE, T., CLARK, K.R., WADSWORTH, S., WANG, L. & WILSON, J.M. (2016) Optimized AAV-Mediated Human Factor VIII Gene Therapy in Hemophilia A Mice and Cynomolgus Macaques. Abstract from American Society of Gene & Cell Therapy (ASGCT) Annual Meeting oral presentation published in Molecular Therapy, **24**(S1), S300.

GREIG, J.A., CALCEDO, R., GRANT, R.L., BOTE, E., PENG, H., MEDINA-JASZEK, C.A., AHONKHAI, O., ROY, S., TRETIAKOVA, A.P. & WILSON, J.M. (2014) Intramuscular Readministration of AAV Vectors in Rhesus Macaques. Abstract from American Society of Gene & Cell Therapy (ASGCT) Annual Meeting poster presentation published in Molecular Therapy, **22**(S1), S28.

GREIG, J.A., CALCEDO, R., GRANT, R.L., BOTE, E., PENG, H., MEDINA-JASZEK, C.A., AHONKHAI, O., ROY, S., TRETIAKOVA, A.P. & WILSON, J.M. (2014) Reduction in AAV8 Intramuscular Injection Volume Does Not Influence Transgene Expression in Rhesus Macaques. Abstract from American Society of Gene & Cell Therapy (ASGCT) Annual Meeting poster presentation published in Molecular Therapy, **22**(S1), S28.

GREIG, J.A., PENG, H., MEDINA-JASZEK, C.A., AHONKHAI, O., ROY, S., SEAMAN, M., TRETIAKOVA, A. & WILSON, J.M. (2012) Expression of Broadly Neutralizing Antibodies (NAbs) Against HIV in RAG KO Mice. Abstract from American Society of Gene & Cell Therapy (ASGCT) Annual Meeting oral presentation published in Molecular Therapy, **20**(S1), S127.

GREIG, J.A., GRANT, R.L., BOTE, E., PENG, H., MEDINA-JASZEK, C.A., AHONKHAI, O., BELL, P., CALCEDO, R., TRETIAKOVA, A. & WILSON, J.M. (2012) Impact of Pre-Existing Neutralizing Antibodies (NAbs) on Expression of a SIV Antibody Following Intramuscular (IM) Administration of AAV2/8. Abstract from American Society of Gene & Cell Therapy (ASGCT) Annual Meeting poster presentation published in Molecular Therapy, **20**(S1), S100.

GREIG, J.A., GRANT, R.L., BOTE, E., PENG, H., MEDINA-JASZEK, C.A., AHONKHAI, O., BELL, P., CALCEDO, R., TRETIAKOVA, A. & WILSON, J.M. (2012) AAV2/8 Transduces Skeletal Muscle in Non-Human Primates at Efficiencies Equal to or Greater Than That Observed in Mice. Abstract from American Society of Gene & Cell Therapy (ASGCT) Annual Meeting poster presentation published in Molecular Therapy, **20**(9), 50.

GREIG, J.A., MCMENAMIN, D. & WILSON, J.M. (2011) Influence of Pre-Existing Neutralizing Antibodies on Gene Expression Following Intramuscular Administration of AAV Vectors. Abstract from American Society of Gene & Cell Therapy (ASGCT) Annual Meeting oral presentation published in *Molecular Therapy*, **19**(7), 1364.

GREIG, J.A., SHIRLEY, R., GRAHAM, D., GILDAY, K., RUOSLAHTI, E., DENBY, L., DOMINICZAK, A.F., WORK, L.M. & BAKER, A.H. (2009) Targeted anti-oxidant therapy in a model of hypertension and stroke. Abstract from Annual Scientific Meeting of the British Hypertension Society 2009 oral presentation published in *Journal of Hypertension*, **23,** S1.

GREIG, J.A., MCVEY, J.H., WADDINGTON, S.N., PARKER, A.L., BUCKLEY, S.M., HAVENGA, M.J., NICKLIN, S.A. & BAKER, A.H. (2008) Factor X enhances binding and transduction of human cancer cell lines by adenovirus (Ad) serotype 5 vectors but not by Ad35. Abstract from British Society for Gene Therapy (BSGT) 2008 oral presentation published in *Human Gene Therapy*, **19**(4), 398.

GREIG, J.A., BUCKLEY, S.M.K., WADDINGTON, S.N., PARKER, A.L., BHELLA, D., PINK, R., MORITA, T., CUSTERS, J., GOUDSMIT, J., NICKLIN, S.A., MCVEY, J.H., & BAKER, A.H. (2009) Influence of factor X on *in vitro* and *in vivo* gene delivery by Ad5 and Ad35 vectors. Abstract from American Society of Gene Therapy (ASGT) 2009 Annual Meeting poster presentation published in *Molecular Therapy*, **17**(S1), S325.