

Dharmacon™ Accell™ siRNA References

Dharmacon™ Accell™ siRNA reagents are specially modified for use in difficult-to-transfect cells without the need for transfection reagents, virus, or electroporation. The following selected peer-reviewed publications have cited their successful use in a variety of experimental systems.

*For more references that use our siRNA for in vivo applications, please see our [in vivo siRNA reading list](#).

Established cell lines

ARPE-19 (human retinal epithelial cells) - 38
BxPC3 (pancreatic tumor cell lines) - 9
C1 tumor derived cells - 51
CD4+ primary human T cells - 4, 70
CD14+ primary monocytes - 21, 35
DG-75 human B lymphocytes - 77
GH3 (rat somatotrophs pituitary cell line) - 61
H9 stem cell lines - 48
HCT-116 (colorectal carcinoma) - 27
HUVEC - 28
JN3(plasma cell leukemia) - 43
KG1 (human acute myelogenous leukemia (AML) macrophage cell line) - 67
LUHMES (Lund human mesencephalic cells) - 68
MEC1 (human chronic B cell leukemia) - 14
MN-1 - 34
MS1 (mouse pancreatic islet endothelia cells) - 22
NOD CD4+CD25- splenic cells - 40
NOXA - 43
OVCA 420 (ovarian carcinoma) - 57
PGA-1 (lymphocytic leukemia B cell line) - 66
RAW264.7 macrophages - 54
SHSY5Y (neuroblastoma) - 12, 25, 65
SKBR3 (ER-/PR-/HER2+ breast cancer cell line) - 71
SNB19 glioma cells - 13

T47D (ductal breast epithelial tumor cell line) - 23
T98 glioma cells - 13
THP-1 monocytes - 11, 26, 45, 50, 62
U266 (peripheral blood B lymphocyte myeloma) - 43
U937 (leukemic monocyte lymphoma) - 53

Primary cells & in vivo

β-islet cells - 15
Bone marrow cells - 10, 17
Bronchial smooth muscle cells (BSMC) - 29, 30
Cardiomyocytes - 5
Cerebellar granule neurons (CGN) - 8, 69
Colon stem/progenitor cells - 75
Corneal endothelial cells (adult human CECs), and ex vivo human corneal endothelium - 74
Cortical neurons - 1, 8, 44, 58, 68
Endometrial cells - 16
Endothelial cells - 7, 36
Extravillous trophoblasts (EVT) - 31
Fibroblasts (primary) - 72
Hepatocytes - 39, 41, 49
Immortalized B cells - 64
Keratinocytes - 56
Lung epithelial cells - 79
Lymphocytes - 46
Macrophages - 3, 37, 52
Mantle cell lymphoma cells (MCL) - 47
Monocytes - 19
Mouse embryonic fibroblasts (MEF) - 24
Naïve fetal T cells - 81
Natural killer (NK) cell line - 60
Neonatal mouse ovary - 80
Neurons (primary rat) - 20

Neurons derived from iPS cells - 73
 Oligodendrocyte precursors - 59
 Pancreatic tumor cell lines - 9
 Peripheral blood mononuclear cells (PBMC) - 6, 33, 84
 Regulatory T cells - 82
 Stem cell-derived peripheral neurons - 78
 Vascular smooth muscle cells (VSMC) - 2, 63
In vivo skin delivery - 18
In vivo rat periodontal model - 32
In vivo mouse intradermal injection - 42
In vivo mouse model - 55, 83
In vivo mouse brain - 68
In vivo rat brain - 85, 86, 87

References

1. A. H. Mortiboys, J. Aasly, *et al.* Ursocholic acid rescues mitochondrial function in common forms of familial Parkinson's disease. *Brain* **136**, 3038-3050 (2013). [Mouse primary cortical neurons]
2. D. Gomez, K. Kessler, *et al.* Modifications of Chromatin Dynamics Control Smad2 Pathway Activation in Aneurysmal Smooth Muscle Cells. *Circ. Res.* **113**, 881 – 890 (2013). [Human vascular smooth muscle cells (VSMC)]
3. S. Jiang, D. Part, *et al.* Mitochondria and AMP-activated Protein Kinase-dependent Mechanism of Efferocytosis. *J. Biol. Chem.* **288**, 26013 - 26026 (2013). [mouse primary perinatal macrophages]
4. S. Sumitomo, K. Fujio, *et al.* Transcription Factor Early Growth Response 3 Is Associated with the TGF- β 1 Expression and the Regulatory Activity of CD4-Positive T Cells *In vivo*. *J. Immunol.* **191**, 2351 - 2359 (2013). [CD4+ primary human T cells]
5. F. Beig, J. Schmeckpeper, *et al.* C3orf58, a Novel Paracrine Protein, Stimulates Cardiomyocyte Cell-Cycle Progression Through the PI3K-AKT-CDK7 Pathway. *Circ. Research* **113**, 372 – 380 (2013). [neonatal cardiomyocytes]
6. T. J. Mulrooney, P. E. Posch, *et al.* DAP12 impacts trafficking and surface stability of killer immunoglobulin-like receptors on natural killer cells. *J. Leukoc. Biology* **94**, 301 – 313 (2013). [PMBCs]
7. R. Arita, S. Nakao, *et al.* A Key Role for ROCK in TNF- α -Mediated Diabetic Microvascular Damage. *Invest. Ophthalmol. Vis. Science* **54**, 2373 – 2383 (2013). [cultured microvascular endothelial cells]
8. S. Hannila, M. Siddiq, *et al.* Secretory Leukocyte Protease Inhibitor Reverses Inhibition by CNS Myelin, Promotes Regeneration in the Optic Nerve, and Suppresses Expression of the Transforming Growth Factor- β Signaling Protein Smad2. *J. Neuroscience* **33**, 5138 – 5151 (2013). [P6 CGNs and P1 rat cortical neurons]
9. K. E. Johnson , S. Mitra , *et al.* Phosphorylation on Ser-279 and Ser-282 of connexin43 regulates endocytosis and gap junction assembly in pancreatic cancer cells. *Mol. Biol. Cell* **24**, 715 – 733 (2013). [human pancreatic tumor cell lines BxPC3]
10. S. Yasunaga, M. Ohtsubo *et al.* Scmh1 Has E3 Ubiquitin Ligase Activity for Geminin and Histone H2A and Regulates Geminin Stability Directly or Indirectly via Transcriptional Repression of Hoxa9 and Hoxb4. *Mol. Cell. Biology* **33**, 644 – 660 (2013). [mouse BM cells]
11. G. Lopez-Castejon, N. M. Luheshi, *et al.* Deubiquitinases Regulate the Activity of Caspase-1 and Interleukin-1 β Secretion via Assembly of the Inflammasome. *J. Biol. Chem* **288**, 2721 – 2733 (2103). [THP-1]
12. G. R. Tundo, D. Sbardella, *et al.* Insulin-degrading Enzyme (IDE): A NOVEL HEAT SHOCK-LIKE PROTEIN. *J. Biol. Chemistry* **288**, 2281 – 2289 (2013). [SHSY5Y cells]
13. H. J. Seol, J. H. Chang, *et al.* Overexpression of CD99 Increases the Migration and Invasiveness of Human Malignant Glioma Cells. *Genes & Cancer* **3**, 535 – 549 (2012). [T98 and SNB19 glioma cells]
14. A. G. Ramsay, A. J. Clear, *et al.* Multiple inhibitory ligands induce impaired T-cell immunologic synapse function in chronic lymphocytic leukemia that can be blocked with lenalidomide: establishing a reversible immune evasion mechanism in human cancer. *Blood* **120**, 1412 – 1421 (2012). [MEC1 cells – Human chronic B cell leukemia]
15. M.R. Metukuri, P. Zhang, *et al.* ChREBP Mediates Glucose-Stimulated Pancreatic β -Cell Proliferation. *Diabetes* **61**, 2004 – 2015 (2012). [human and rat islet cells]
16. E. M. De La Garza, P. A. Binkley, *et al.* Raf-1, a Potential Therapeutic Target, Mediates Early Steps in Endometriosis Lesion Development by Endometrial Epithelial and Stromal Cells. *Endocrinology* **153**, 3911 – 3921 (2012). [primary endometrial cells]
17. X. Qu, G. Zhuang, *et al.* Induction of Bv8 Expression by Granulocyte Colony-stimulating Factor in CD11b+Gr1+ Cells. *J. Biol. Chemistry* **287**, 19574-19584 (2012). [primary mouse bone marrow cells]
18. R. P. Hickerson, M. A. Flores, *et al.* Use of self-delivery siRNAs to inhibit gene expression in an organotypic pachonychia congenita model. *J Invest Dermatol* **131**(5), 1037-44 (2011) [In vivo skin delivery]
19. A. Nijnik, J. Pistolic, *et al.* The role of the Src family kinase Lyn in the immunomodulatory activities of cathelicidin peptide LL-37 on monocytic cells. *J. Leukoc. Biology* **91**, 599-607 (2012) [monocytes]
20. A. Vagnoni, M. S. Perkinson, *et al.* Calsyntenin-1 mediates axonal transport of the amyloid precursor protein and regulates A β production. *Human Molecular Genetics* **21**(13), 2845-54 (2012). [Rat E18 primary neurons]
21. P. Kuo, M. Huang, *et al.* Lung Cancer-derived Galectin-1 Enhances Tumorigenic Potentiation of Tumor-associated Dendritic Cells by Expressing Heparin-binding EGF-like Growth Factor. *J. Biol. Chem.* **287**, 9753-9764 (2012). [CD14+ primary monocytes]
22. M. Franco, P. Roswall, *et al.* Pericytes promote endothelial cell survival through induction of autocrine VEGF-A signaling and Bcl-w expression. *Blood* **118**, 2906 – 2917 (2011). [MS1cells; Mouse pancreatic islet endothelia]
23. A. A. Fiorillo, T. R. Medler, *et al.* HMG2 Inducibly Binds a Novel Transactivation Domain in Nuclear PRLr to Coordinate Stat5a-Mediated Transcription. *Molecular Endocrinology* **25**, 1550 – 1564 (2011). [T47D cells]
24. C. X. George and C. E. Samuel, Host Response to Polyomavirus Infection Is Modulated by RNA Adenosine Deaminase ADAR1 but Not by ADAR2. *Journal of Virology* **85**, 8338 – 8347 (2011). [MEF cells]
25. M. Meguro-Horike, D. H. Yasui, *et al.* Neuron-specific impairment of inter-chromosomal pairing and transcription in a novel model of human 15q-duplication syndrome. *Human Molecular Genetics* **20**(19), 3798-810 (2011). [SH-SY5Y]
26. Emily Turner-Brannen, Ka-Yee Grace Choi, *et al.* Inflammatory Cytokines IL-32 and IL-17 Have Common Signaling Intermediates despite Differential Dependence on TNF-Receptor 1. *J. Immunology* **186**, 7127 – 7135 (2011). [THP-1 monocytes]
27. R. J. Boohaker, G. Zhang, *et al.* BAX supports the mitochondrial network, promoting bioenergetics in nonapoptotic cells. *Am J Physiol Cell Physiology* **300**, C1466-C1478 (2011). [HCT-116]
28. K. He, G. Sui, *et al.* Feedback Regulation of Endothelial Cell Surface Plasmin Generation by PKC-dependent Phosphorylation of Annexin A2. *J. Biol. Chemistry* **286**, 15428-15439 (2011). [HUVEC cells]
29. K. He, G. Sui, *et al.* Feedback Regulation of Endothelial Cell Surface Plasmin Generation by PKC-dependent Phosphorylation of Annexin A2. *J. Biol. Chemistry* **286**, 15428-15439 (2011). [HUVEC cells]

30. P. L. Kuo, M. S. Huang, *et al.* Signaling pathway of isophorone diisocyanate-responsive interleukin-8 in airway smooth muscle cells. *Eur. Respir. J* **37**, 1226 – 1236 (2011). [BSMCs]
31. P. Kuo, Y. Hsu, *et al.* Bronchial Epithelium-Derived IL-8 and RANTES Increased Bronchial Smooth Muscle Cell Migration and Proliferation by Krüppel-like Factor 5 in Areca Nut-Mediated Airway Remodeling. *Toxicol. Sci.* **121**, 177-190 (2011). [BSMCs]
32. K. Biadasiewicz, S. Sonderegger, *et al.* Transcription Factor AP-2 α Promotes EGF-Dependent Invasion of Human Trophoblast. *Endocrinology* **152**, 1458 – 1469 (2011). [primary EVT s]
33. Q. Li, H. Yu, *et al.* Silencing Mitogen-Activated Protein Kinase-Activated Protein Kinase-2 Arrests Inflammatory Bone Loss. *J. Pharmacol. Exp. Ther* **336**, 633 – 642 (2011). [ex vivo and In vivo rat periodontal model]
34. K. Billot, J. Soeur, *et al.* Deregulation of Aiolos expression in chronic lymphocytic leukemia is associated with epigenetic modifications. *Blood* **117**, 1917 – 1927 (2011). [PBMCs]
35. L. Hubers, H. Valderrama-Carvajal, *et al.* HuD interacts with survival motor neuron protein and can rescue spinal muscular atrophy-like neuronal defects. *Hum. Mol. Genetics* **20**, 553 – 579 (2011). [MN-1 cells]
36. P. Kuo, J. Hung, Lung, *et al.* Cancer-Derived Galectin-1 Mediates Dendritic Cell Energy through Inhibitor of DNA Binding 3/IL-10 Signaling Pathway. *Journal of Immunology* **186**, 1521 – 1530 (2011). [Monocytes]
37. S. F. Leicht, T. M. Schwarz, *et al.* Adiponectin Pretreatment Counteracts the Detrimental Effect of a Diabetic Environment on Endothelial Progenitors. *Diabetes* **60**, 652 – 661 (2011). [endothelial colony-forming cells (ECFC)]
38. D. N. Petrusca, Y. Gu, *et al.* Sphingolipid-mediated Inhibition of Apoptotic Cell Clearance by Alveolar Macrophages. *Journal of Biological Chemistry* **285**, 40322 – 40332 (2010). [Rat alveolar macrophages (AM)]
39. A. Giddabasappa, M. Bauler, *et al.* 17- β Estradiol Protects ARPE-19 Cells from Oxidative Stress through Estrogen Receptor- β . *Invest. Ophthalmol. Vis. Sci.* **51**, 5278 – 5287 (2010). [Human retinal epithelial cells ARPE-19 cells]
40. E. Murakami *et al.* Mechanism of Activation of PSI-7851 and its Diastereoisomer PSI-7977. *Journal of Biological Chemistry* **285**, 34337-34347 (2010). [primary human hepatocytes]
41. J. Zhang *et al.* MEKK3 Overexpression Contributes to the Hyperresponsiveness of IL-12-Overproducing Cells and CD4+ T Conventional Cells in Nonobese Diabetic Mice. *Journal of Immunology* **185**, 3554 – 3563 (2010). [NOD CD4+CD25- splenic cells]
42. M. Liao *et al.* Inhibition of Hepatic Organic Anion-transporting Polypeptide by RNA Interference in Sandwich-cultured Human Hepatocytes: An in vitro Model to Assess Transporter-mediated Drug-drug Interactions. *Drug Metabolism and Deposition* **38**, 9 1612-1622 (2010). [freshly isolated human hepatocytes]
43. E. Gonzalez-Gonzalez *et al.* Silencing of Reporter Gene Expression in Skin Using siRNAs and Expression of Plasmid DNA Delivered by a Soluble Protrusion Array Device (PAD). *Molecular Therapy* **18**(9), 1667-74 (2010). [mouse intradermal injection]
44. B. Tunquist *et al.* Mcl-1 Stability Determines Mitotic Cell Fate of Human Multiple Myeloma Tumor Cells Treated with the Kinesin Spindle Protein Inhibitor ARRY-520. *Molecular Cancer Therapeutics* **9**, 2046 – 2056 (2010). [multiple myeloma cell lines: JJN3 NOXA in RPMI 8226 and U266]
45. S. Suzuki *et al.* Differential Roles of Epac in Regulating Cell Death in Neuronal and Myocardial Cells. *Journal of Biological Chemistry* **285**, 24248 – 24259 (2010). [primary mouse cortical neurons (E15-17)]
46. S. Winning *et al.* Acute Hypoxia Induces HIF-Independent Monocyte Adhesion to Endothelial Cells through Increased Intercellular Adhesion Molecule-1 Expression: The Role of Hypoxic Inhibition of Prolyl Hydroxylase Activity for the Induction of NF- κ B. *Journal of Immunology* **185**, 1786 -1793 (2010). [THP-1 monocytes]
47. M. Chetane *et al.* Interleukin-7 mediates glucose utilization in lymphocytes through transcriptional regulation of the hexokinase II gene. *Am J Physiol Cell Physiol* **298**, C1560 - C1571 (2010). [lymphocytes]
48. S. Desai *et al.* PRDM1 Is Required for Mantle Cell Lymphoma Response to Bortezomib. *Molecular Cancer Research* **8**, 907 - 918 (2010). [mantle cell lymphoma (MCL) cells]
49. S. Byas *et al.* Human Embryonic Stem Cells Maintain Pluripotency after E-Cadherin Expression Knockdown. *FASEB J* **24**, 1b172 (2010). [H9 stem cell lines]
50. B. Mukhopadhyay *et al.* Transcriptional Regulation of Cannabinoid Receptor-1 Expression in the Liver by Retinoic Acid Acting via Retinoic Acid Receptor. *Journal of Biological Chemistry* **285**, 19002-19011 (2010). [cultured mouse hepatocytes]
51. V. Saini *et al.* CXC Chemokine Receptor 4 Is a Cell Surface Receptor for Extracellular Ubiquitin. *Journal of Biological Chemistry* **285**, 15566 – 15576 (2010). [THP-1 monocytes]
52. I. Barbieri *et al.* Constitutively Active Stat3 Enhances Neu-Mediated Migration and Metastasis in Mammary Tumors via Upregulation of Cten. *Cancer Research* **70**, 2558 – 2567 (2010). [C1 tumor derived cells]
53. J. W. Perry *et al.* Endocytosis of Murine Norovirus 1 into Murine Macrophages Is Dependent on Dynamin II and Cholesterol. *Journal of Virology* **84**, 6163-6176 (2010). [murine macrophages]
54. Z-H. Xue *et al.*, Integrin α M β 2 Clustering Triggers Phosphorylation and Activation of Protein Kinase C δ that Regulates Transcription Factor Foxp1 Expression in Monocytes. *Journal of Immunology* **184**, 3697-3709 (2010). [U937 cells; human leukemic monocyte lymphoma]
55. M. Steenport *et al.*, Matrix Metalloproteinase (MMP)-1 and MMP-3 Induce Macrophage MMP-9: Evidence for the Role of TNF- α and Cyclooxygenase-2. *Journal of Immunology* **183**(12), 8119-27 (2009). [RAW264.7 macrophages]
56. A. DiFeo *et al.* KLF6-SV1 Is a Novel Antiapoptotic Protein That Targets the BH3-Only Protein NOXA for Degradation and Whose Inhibition Extends Survival in an Ovarian Cancer Model. *Cancer Research*. **69**, 4733-41 (2009). [In vivo mouse model]
57. A. Kovalenko *et al.* Caspase-8 Deficiency in Epidermal Keratinocytes Triggers an Inflammatory Skin Disease. *Journal of Experimental Medicine* **206**: 2161 – 2177 (2009). [Keratinocytes]
58. C. Bartholomeusz *et al.* PEA-15 Induces Autophagy in Human Ovarian Cancer Cells and is Associated with Prolonged Overall Survival. *Cancer Research* **68**, 9302-9310 (2008). [OVCA 420; ovarian carcinoma]
59. A.M. Dolga *et al.* TNF- α -mediates neuroprotection against glutamate-induced excitotoxicity via NF- κ B-dependent up-regulation of K2.2 channels. *Journal of Neurochemistry* **107**, 1158-1167 (2008). [mouse primary cortical neurons]
60. F. Mir and G.C. Le Breton. A Novel Nuclear Signaling Pathway for Thromboxane A2 Receptors in Oligodendrocytes: Evidence for Signaling Compartmentalization during Differentiation. *Mol. Cell. Biology* **28**, 6329-6341 (2008). [oligodendrocyte precursors]
61. C.B Lai, Y.Zhang, *et al.* Creation of the two isoforms of rodent NKG2D was driven by a B1 retrotransposon insertion. *Nucleic Acids Research* **37**(9), 3032-43 (2009). [mouse NK cell line]
62. G. A. Peters *et al.* The double-stranded RNA-binding protein, PACT, is required for postnatal anterior pituitary proliferation. *PNAS* **106**(26), 10696-10701 (2009). [GH3; rat somatotrophs (pituitary cell line) and L β T2 gonadotrophs]
63. N. Mookherjee *et al.* Intracellular Receptor for Human Host Defense Peptide LL-37 in Monocytes. *J. Immunol.* 2009; **183**. 2688-2696 [THP-1; human monocytes]

64. B. Zheng *et al.* Krüppel-like Factor 4 Inhibits Proliferation by Platelet-derived Growth Factor Receptor β -mediated, Not by Retinoic Acid Receptor α -mediated, Phosphatidylinositol 3-Kinase and ERK Signaling in Vascular Smooth Muscle Cells. *Journal of Biological Chemistry* **284** (34), 22773-22785 (2009). [VUMC; primary rat vascular smooth muscle cells]
65. D. Smirnov *et al.* Genetic Analysis of Radiation-induced Changes in Human Gene Expression. *Nature* **459**, 587-591 (2009). [immortalized B cells]
66. U. Dreses-Werringloer *et al.* A Polymorphism in CALHM1 Influences Ca^{2+} Homeostasis, Ab Levels, and Alzheimer's Disease Risk. *Cell* **133**, 1149-1161 (2008). [SHSY-5Y; human neuroblastoma]
67. A.M. McElligott *et al.* The Novel Tubulin-Targeting Agent Pyrrolo-1,5-Benzoxazepine-15 Induces Apoptosis in Poor Prognostic Subgroups of Chronic Lymphocytic Leukemia. *Cancer* **69**(21), 8366-75 (2009). [PGA-1; EBV-transformed chronic lymphocytic leukemia (CLL) B cell line]
68. Z. Guo *et al.* PIM inhibitors target CD25-positive AML cells through concomitant suppression of STAT5 activation and degradation of MYC oncogene. *Blood* **124**, 1777-1789 (2014) [KG1; human AML macrophage cell line]
69. H. Xu *et al.* Tau Silencing by siRNA in the P301S Mouse Model of Tauopathy. *Current Gene Therapy* **14**, 343-351 (2014) [mouse E15 cortical neurons, LUHMES cells, *In vivo* mouse brain injection]
70. A. Collado-Alsina *et al.* The Regulation of Synaptic Vesicle Recycling by cGMP-Dependent Protein Kinase Type II in Cerebellar Granule Cells under Strong and Sustained Stimulation *J. Neuroscience*. 2014; 34:8788-8799. [cerebellar granule cells]
71. M. Freeley *et al.* RNAi Screening with Self-Delivering Synthetic siRNAs for Identification of Genes That Regulate Primary Human T Cell Migration *J. Biomolecular Screening*. 2015; DOI: 10.1177/1087057115588288 [Primary human T-cells]
72. S. Das, G. Sondarva, *et al.* Human Epidermal Growth Factor Receptor 2 (HER2) Impedes MLK3 Kinase Activity to Support Breast Cancer Cell Survival. *J. Biol. Chemistry* **290**, 35, 21705-21712 (2015). [SKBR3 (ER-/PR-/HER2+ breast cancer cell line)]
73. J. Bruban, G. Voloudakis, *et al.* Presenilin 1 is necessary for neuronal, but not glial, EGFR expression and neuroprotection via gamma-secretase-independent transcriptional mechanisms. *FASEB J.* **29**, 3702-3712 (2015) [murine primary cortical neurons (E15.5) and primary fibroblasts]
74. M. Komatsu, H. E. Wheeler, *et al.* Pharmacothnicity in Paclitaxel-Induced Sensory Peripheral Neuropathy, *Clin. Cancer Res.* **21**, 4337 - 4346 (2015) [Neurons derived from iPS cells]
75. J. G. Lee and M. Heur. WNT10B Enhances Proliferation through β -Catenin and RAC1 GTPase in Human Corneal Endothelial Cells. *J. Biol. Chem.* **290**, 26752-26764 (2015) [Adult human corneal endothelial cells (CECs) and ex vivo human corneal endothelium]
76. I. Nasri, D. Bonnet, *et al.* PAR2-dependent activation of GSK3 β regulates the survival of colon stem/progenitor cells. *Am J Physiol Gastrointest Liver Physiol* **311**, G221 - G236 (2016) [colon stem/progenitor cells]
77. H. Lee, J.W. Lee, *et al.* Inflammation and Inflammatory Mediators in Kidney Disease: Cln 3-requiring 9 is a negative regulator of Th17 pathway-driven inflammation in anti-glomerular basement membrane glomerulonephritis *Am J Physiol Renal Physiol.* **311**, F505-F519 (2016)
78. T. Tagawa, M. Albanese, *et al.* Epstein-Barr viral miRNAs inhibit antiviral CD4+ T cell responses targeting IL-12 and peptide processing. *J Exp Med.* **213**(10), 2065-2080 (2016) [human B cells, DG-75]
79. D.L. Hertz, K. Owzar, *et al.* Pharmacogenetic Discovery in CALGB (Alliance) 90401 and Mechanistic Validation of a VAC14 Polymorphism that Increases Risk of Docetaxel-Induced Neuropathy. *Clin Cancer Res.* **22**, 4890-4900 (2016). [stem cell-derived peripheral neuronal cells]
80. S. Das, M. Miller, *et al.* GSDMB induces an asthma phenotype characterized by increased airway responsiveness and remodeling without lung inflammation *PNAS.* **113** (46) 13132-13137 (2016) [human lung epithelial cells]
81. I.B. Sharum, S. Granados-Aparici, *et al.* Serine threonine kinase receptor associated protein regulates early follicle development in the mouse ovary. *Reproduction*, Dec 2016; **153**: 221 - 231. [neonatal mouse ovary]
82. T.D. Burt, J.M. McCune *et al.* Lin28b Regulates Fetal Regulatory T Cell Differentiation through Modulation of TGF- β Signaling. *J. Immunol.*, Dec 2016; 197: 4344 - 4350. [naïve fetal T cells]
83. K. Morita, T. Okamura, *et al.* Egr2 and Egr3 in regulatory T cells cooperatively control systemic autoimmunity through Ltbp3-mediated TGF- β 3 production. *PNAS*, Nov 2016; **10**.1073/pnas.1611286114. [regulatory T cells]
84. N.K. Banda, S. Acharya, *et al.* Mannan-Binding Lectin-Associated Serine Protease 1/3 Cleavage of Pro-Factor D into Factor D In vivo and Attenuation of Collagen Antibody-Induced Arthritis through Their Targeted Inhibition by RNA Interference-Mediated Gene Silencing. *J. Immunol.*, Nov 2016; **197**: 3680 - 3694. [In vivo mouse injection; liver and adipose tissue knockdown]
85. Y. Deng, J. Zhao, *et al.* Decreased SMG7 expression associates with lupus-risk variants and elevated antinuclear antibody production. *Ann Rheum Dis*, Nov 2016; 75: 2007 - 2013. [PBMCs]
86. K.A. Mitchnick, S. Creighton, *et al.* Differential contributions of de novo and maintenance DNA methyltransferases to object memory processing in the rat hippocampus and perirhinal cortex - a double dissociation. *European Journal of Neuroscience*, 1-14 (2014) [infusion via intracranial cannula (rat)]
87. L. Huang *et al.* Phosphoinositide 3- Kinase Gamma Contributes to Neuroinflammation in a Rat model of Surgical Brain Injury. *The Journal of Neuroscience*, **35**(29): 10390-10401 (2015) [rat brain, intracerebroventricular administration]
88. H. Nakajima *et al.* Nuclear-translocated Glyceraldehyde-3-phosphate Dehydrogenase Promotes Poly(ADP-ribose) Polymerase-1 Activation during Oxidative/Nitrosative Stress in Stroke. *Journal of Biological Chemistry*, Vol. 290 No. 23 (14493-14503)(2015) [rat brain - intracerebroventricular injection]

If you have any questions

t +44 (0) 1223 976 000 (UK) or +1 800 235 9880 (USA); +1 303 604 9499 (USA)

f + 44 (0)1223 655 581

w horizondiscovery.com/contact-us or dharmacon.horizondiscovery.com/service-and-support

Horizon Discovery, 8100 Cambridge Research Park, Waterbeach, Cambridge, CB25 9TL, United Kingdom

NuLight is a trademark of Thermo Fisher Scientific, Inc. ©2018 Horizon Discovery Group Company—All rights reserved. First published April 2018. UK Registered Head Office: Building 8100, Cambridge Research Park, Cambridge, CB25 9TL, United Kingdom.

horizon™
INSPIRED CELL SOLUTIONS