# Ronald Crystal

## List of Publications by Year in Descending Order



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| 170 papers | 9,855 citations | 51 h-index | 97 g-index |
| 179 ext. papers | 11,494 ext. citations | 7.9 avg, IF | 5.94 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 170 | The QChip1 knowledgebase and microarray for precision medicine in Qatar.. *Npj Genomic Medicine*, **2022**, 7, 3 | 6.2 | 2 |
| 169 | Impaired differentiation of small airway basal stem/progenitor cells in people living with HIV.. *Scientific Reports*, **2022**, 12, 2966 | 4.9 | 1 |
| 168 | Metabolic and Metabo-Clinical Signatures of T2D, Obesity, Retinopathy and Dyslipidemia. *Diabetes*, **2021**, | 0.9 | 3 |
| 167 | Extracellular vesicles from human airway basal cells respond to cigarette smoke extract and affect vascular endothelial cells. *Scientific Reports*, **2021**, 11, 6104 | 4.9 | 4 |
| 166 | CREB-dependent LPA-induced signaling initiates a pro-fibrotic feedback loop between small airway basal cells and fibroblasts. *Respiratory Research*, **2021**, 22, 97 | 7.3 | 1 |
| 165 | Gene therapy for a murine model of eosinophilic esophagitis. *Allergy: European Journal of Allergy and Clinical Immunology*, **2021**, 76, 2740-2752 | 9.3 | 1 |
| 164 | Safety of Direct Intraparenchymal AAVrh.10-Mediated Central Nervous System Gene Therapy for Metachromatic Leukodystrophy. *Human Gene Therapy*, **2021**, 32, 563-580 | 4.8 | 5 |
| 163 | Should Gene Therapy Be Used to Prevent Potentially Fatal Disease but Enable Potentially Destructive Behavior?. *Human Gene Therapy*, **2021**, 32, 529-534 | 4.8 | 0 |
| 162 | Up-regulation of ACE2, the SARS-CoV-2 receptor, in asthmatics on maintenance inhaled corticosteroids. *Respiratory Research*, **2021**, 22, 200 | 7.3 | 5 |
| 161 | HIV induces airway basal progenitor cells to adopt an inflammatory phenotype. *Scientific Reports*, **2021**, 11, 3988 | 4.9 | 5 |
| 160 | Automated Retinal Layer Segmentation in CLN2-Associated Disease: Commercially Available Software Characterizing a Progressive Maculopathy. *Translational Vision Science and Technology*, **2021**, 10, 23 | 3.3 | 0 |
| 159 | A Novel STK4 Mutation Impairs T Cell Immunity Through Dysregulation of Cytokine-Induced Adhesion and Chemotaxis Genes. *Journal of Clinical Immunology*, **2021**, 41, 1839-1852 | 5.7 | 1 |
| 158 | Smoking shifts human small airway epithelium club cells toward a lesser differentiated population. *Npj Genomic Medicine*, **2021**, 6, 73 | 6.2 | 2 |
| 157 | Long-term functional correction of cystathionine β-synthase deficiency in mice by adeno-associated viral gene therapy. *Journal of Inherited Metabolic Disease*, **2021**, 44, 1382-1392 | 5.4 | 1 |
| 156 | Epicardial delivery of XC001 gene therapy for refractory angina coronary treatment (The EXACT Trial): Rationale, design, and clinical considerations. *American Heart Journal*, **2021**, 241, 38-49 | 4.9 | 1 |
| 155 | My Pathway to Gene Therapy. *Human Gene Therapy*, **2020**, 31, 273-282 | 4.8 | |
| 154 | Association of vitamin D and D with type 2 diabetes complications. *BMC Endocrine Disorders*, **2020**, 20, 65 | 3.3 | 5 |

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| 153 | Expression of the SARS-CoV-2 Receptor in the Human Airway Epithelium. *American Journal of Respiratory and Critical Care Medicine*, **2020**, 202, 219-229 | 10.2 | 127 |
| 152 | Identifying novel associations in GWAS by hierarchical Bayesian latent variable detection of differentially misclassified phenotypes. *BMC Bioinformatics*, **2020**, 21, 178 | 3.6 | 3 |
| 151 | Symmetric Age Association of Retinal Degeneration in Patients with CLN2-Associated Batten Disease. *Ophthalmology Retina*, **2020**, 4, 728-736 | 3.8 | 6 |
| 150 | Single-Cell Transcriptome Analysis of Mouse Liver Cell-Specific Tropism and Transcriptional Dysregulation Following Intravenous Administration of AAVrh.10 Vectors. *Human Gene Therapy*, **2020**, 31, 590-604 | 4.8 | 4 |
| 149 | Intermittent exposure to whole cigarette smoke alters the differentiation of primary small airway epithelial cells in the air-liquid interface culture. *Scientific Reports*, **2020**, 10, 6257 | 4.9 | 21 |
| 148 | Cocaine vaccine dAd5GNE protects against moderate daily and high-dose "binge" cocaine use. *PLoS ONE*, **2020**, 15, e0239780 | 3.7 | 6 |
| 147 | Anti-Phospho-Tau Gene Therapy for Chronic Traumatic Encephalopathy. *Human Gene Therapy*, **2020** , 31, 57-69 | 4.8 | 5 |
| 146 | Systemic Adeno-Associated Virus-Mediated Gene Therapy Prevents the Multiorgan Disorders Associated with Aldehyde Dehydrogenase 2 Deficiency and Chronic Ethanol Ingestion. *Human Gene Therapy*, **2020**, 31, 163-182 | 4.8 | 3 |
| 145 | Association of vitamin D and its metabolites in patients with and without type 2 diabetes and their relationship to diabetes complications. *Therapeutic Advances in Chronic Disease*, **2020**, 11, 2040622320924159 | 4.9 | 6 |
| 144 | Stress-Induced Mouse Model of the Cardiac Manifestations of Friedreich's Ataxia Corrected by AAV-mediated Gene Therapy. *Human Gene Therapy*, **2020**, 31, 819-827 | 4.8 | 5 |
| 143 | Increased airway iron parameters and risk for exacerbation in COPD: an analysis from SPIROMICS. *Scientific Reports*, **2020**, 10, 10562 | 4.9 | 10 |
| 142 | Slowing late infantile Batten disease by direct brain parenchymal administration of a rh.10 adeno-associated virus expressing. *Science Translational Medicine*, **2020**, 12, | 17.5 | 15 |
| 141 | Qatari Genotype May Contribute to Complications in Type 2 Diabetes. *Journal of Diabetes Research*, **2020**, 2020, 6356973 | 3.9 | 1 |
| 140 | Cell-specific expression of lung disease risk-related genes in the human small airway epithelium. *Respiratory Research*, **2020**, 21, 200 | 7.3 | 12 |
| 139 | Reply to Sharma and Zeki: Does Vaping Increase Susceptibility to COVID-19?. *American Journal of Respiratory and Critical Care Medicine*, **2020**, 202, 1056-1057 | 10.2 | 1 |
| 138 | Dysregulation of club cell biology in idiopathic pulmonary fibrosis. *PLoS ONE*, **2020**, 15, e0237529 | 3.7 | 13 |
| 137 | Association of Differing Qatari Genotypes with Vitamin D Metabolites. *International Journal of Endocrinology*, **2020**, 2020, 7831590 | 2.7 | 4 |
| 136 | Advances in the Treatment of Neuronal Ceroid Lipofuscinosis. *Expert Opinion on Orphan Drugs*, **2019**, 7, 473-500 | 1.1 | 7 |

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| 135 | Characterization of an immortalized human small airway basal stem/progenitor cell line with airway region-specific differentiation capacity. *Respiratory Research*, **2019**, 20, 196 | 7.3 | 19 |
| 134 | Gene Therapy Correction of Aldehyde Dehydrogenase 2 Deficiency. *Molecular Therapy - Methods and Clinical Development*, **2019**, 15, 72-82 | 6.4 | 10 |
| 133 | Exaggerated BMP4 signalling alters human airway basal progenitor cell differentiation to cigarette smoking-related phenotypes. *European Respiratory Journal*, **2019**, 53, | 13.6 | 16 |
| 132 | Gene therapy for C1 esterase inhibitor deficiency in a Murine Model of Hereditary angioedema. *Allergy: European Journal of Allergy and Clinical Immunology*, **2019**, 74, 1081-1089 | 9.3 | 22 |
| 131 | Role of KRAS in regulating normal human airway basal cell differentiation. *Respiratory Research*, **2019**, 20, 181 | 7.3 | 3 |
| 130 | Cell-specific upregulation of lung cancer signature genes in the small airway epithelium of asymptomatic smokers.. *Journal of Clinical Oncology*, **2019**, 37, 3109-3109 | 2.2 | |
| 129 | Whole-methylome analysis of circulating monocytes in acute diabetic Charcot foot reveals differentially methylated genes involved in the formation of osteoclasts. *Epigenomics*, **2019**, 11, 281-296 | 4.4 | 4 |
| 128 | A systematic review on the genetics of male infertility in the era of next-generation sequencing. *Arab Journal of Urology Arab Association of Urology*, **2018**, 16, 53-64 | 1.7 | 24 |
| 127 | Attenuation of the Niemann-Pick type C2 disease phenotype by intracisternal administration of an AAVrh.10 vector expressing Npc2. *Experimental Neurology*, **2018**, 306, 22-33 | 5.7 | 10 |
| 126 | Point-of-care whole-exome sequencing of idiopathic male infertility. *Genetics in Medicine*, **2018**, 20, 1365-1373 | 8.1 | 58 |
| 125 | AAVrh.10-Mediated APOE2 Central Nervous System Gene Therapy for APOE4-Associated Alzheimer's Disease. *Human Gene Therapy Clinical Development*, **2018**, 29, 24-47 | 3.2 | 52 |
| 124 | At the Root: Defining and Halting Progression of Early Chronic Obstructive Pulmonary Disease. *American Journal of Respiratory and Critical Care Medicine*, **2018**, 197, 1540-1551 | 10.2 | 94 |
| 123 | Whole-exome sequencing identifies common and rare variant metabolic QTLs in a Middle Eastern population. *Nature Communications*, **2018**, 9, 333 | 17.4 | 33 |
| 122 | Biology of the Adrenal Gland Cortex Obviates Effective Use of Adeno-Associated Virus Vectors to Treat Hereditary Adrenal Disorders. *Human Gene Therapy*, **2018**, 29, 403-412 | 4.8 | 16 |
| 121 | p63 Silencing induces reprogramming of cardiac fibroblasts into cardiomyocyte-like cells. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 156, 556-565.e1 | 1.5 | 7 |
| 120 | In Vivo Potency Assay for Adeno-Associated Virus-Based Gene Therapy Vectors Using AAVrh.10 as an Example. *Human Gene Therapy Methods*, **2018**, 29, 146-155 | 4.9 | 11 |
| 119 | Altered lung biology of healthy never smokers following acute inhalation of E-cigarettes. *Respiratory Research*, **2018**, 19, 78 | 7.3 | 61 |
| 118 | Ontogeny and Biology of Human Small Airway Epithelial Club Cells. *American Journal of Respiratory and Critical Care Medicine*, **2018**, 198, 1375-1388 | 10.2 | 49 |

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| 117 | Intrapleural Gene Therapy for Alpha-1 Antitrypsin Deficiency-Related Lung Disease. *Chronic Obstructive Pulmonary Diseases (Miami, Fla )*, **2018**, 5, 244-257 | 2.7 | 12 |
| 116 | Mandatory role of HMGA1 in human airway epithelial normal differentiation and post-injury regeneration. *Oncotarget*, **2018**, 9, 14324-14337 | 3.3 | 6 |
| 115 | Untargeted Metabolite Profiling of Cerebrospinal Fluid Uncovers Biomarkers for Severity of Late Infantile Neuronal Ceroid Lipofuscinosis (CLN2, Batten Disease). *Scientific Reports*, **2018**, 8, 15229 | 4.9 | 12 |
| 114 | Corneal confocal microscopy: Neurologic disease biomarker in Friedreich ataxia. *Annals of Neurology*, **2018**, 84, 893-904 | 9.4 | 24 |
| 113 | Exome sequencing-based identification of novel type 2 diabetes risk allele loci in the Qatari population. *PLoS ONE*, **2018**, 13, e0199837 | 3.7 | 3 |
| 112 | Disease characteristics and progression in patients with late-infantile neuronal ceroid lipofuscinosis type 2 (CLN2) disease: an observational cohort study. *The Lancet Child and Adolescent Health*, **2018**, 2, 582-590 | 14.5 | 57 |
| 111 | HIV Reprograms Human Airway Basal Stem/Progenitor Cells to Acquire a Tissue-Destructive Phenotype. *Cell Reports*, **2017**, 19, 1091-1100 | 10.6 | 11 |
| 110 | Role of OSGIN1 in mediating smoking-induced autophagy in the human airway epithelium. *Autophagy*, **2017**, 13, 1205-1220 | 10.2 | 28 |
| 109 | Smoking-Dependent Distal-to-Proximal Repatterning of the Adult Human Small Airway Epithelium. *American Journal of Respiratory and Critical Care Medicine*, **2017**, 196, 340-352 | 10.2 | 47 |
| 108 | Genetic Modification of the Lung Directed Toward Treatment of Human Disease. *Human Gene Therapy*, **2017**, 28, 3-84 | 4.8 | 28 |
| 107 | Compelling evidence for the efficacy of 1-antitrypsin augmentation treatment for 1-antitrypsin deficiency. *Lancet Respiratory Medicine,the*, **2017**, 5, 7-8 | 35.1 | 2 |
| 106 | Endothelial Cell Mediated Promotion of Ciliated Cell Differentiation of Human Airway Basal Cells via Insulin and Insulin-Like Growth Factor 1 Receptor Mediated Signaling. *Stem Cell Reviews and Reports*, **2017**, 13, 309-317 | 6.4 | 8 |
| 105 | An independent component analysis confounding factor correction framework for identifying broad impact expression quantitative trait loci. *PLoS Computational Biology*, **2017**, 13, e1005537 | 5 | 6 |
| 104 | Intracerebral gene therapy in children with mucopolysaccharidosis type IIIB syndrome: an uncontrolled phase 1/2 clinical trial. *Lancet Neurology, The*, **2017**, 16, 712-720 | 24.1 | 103 |
| 103 | Refining Current Scientific Priorities and Identifying New Scientific Gaps in HIV-Related Heart, Lung, Blood, and Sleep Research. *AIDS Research and Human Retroviruses*, **2017**, 33, 889-897 | 1.6 | 4 |
| 102 | EGF-Amphiregulin Interplay in Airway Stem/Progenitor Cells Links the Pathogenesis of Smoking-Induced Lesions in the Human Airway Epithelium. *Stem Cells*, **2017**, 35, 824-837 | 5.8 | 34 |
| 101 | In situ reprogramming to transdifferentiate fibroblasts into cardiomyocytes using adenoviral vectors: Implications for clinical myocardial regeneration. *Journal of Thoracic and Cardiovascular Surgery*, **2017**, 153, 329-339.e3 | 1.5 | 28 |
| 100 | Waterpipe smoking induces epigenetic changes in the small airway epithelium. *PLoS ONE*, **2017**, 12, e0171112 | 3.7 | 23 |

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| 99 | Smoking-Associated Disordering of the Airway Basal Stem/Progenitor Cell Metabotype. *American Journal of Respiratory Cell and Molecular Biology*, **2016**, 54, 231-40 | 5.7 | 24 |
| 98 | The Qatar genome: a population-specific tool for precision medicine in the Middle East. *Human Genome Variation*, **2016**, 3, 16016 | 1.8 | 62 |
| 97 | Brain Region-Specific Degeneration with Disease Progression in Late Infantile Neuronal Ceroid Lipofuscinosis (CLN2 Disease). *American Journal of Neuroradiology*, **2016**, 37, 1160-9 | 4.4 | 17 |
| 96 | Gene therapy for metachromatic leukodystrophy. *Journal of Neuroscience Research*, **2016**, 94, 1169-79 | 4.4 | 39 |
| 95 | Two hits in one: whole genome sequencing unveils LIG4 syndrome and urofacial syndrome in a case report of a child with complex phenotype. *BMC Medical Genetics*, **2016**, 17, 84 | 2.1 | 13 |
| 94 | Intracerebral adeno-associated virus gene delivery of apolipoprotein E2 markedly reduces brain amyloid pathology in Alzheimer's disease mouse models. *Neurobiology of Aging*, **2016**, 44, 159-172 | 5.6 | 39 |
| 93 | Progression to COPD in smokers with normal spirometry/low DLCO using different methods to determine normal levels. *European Respiratory Journal*, **2016**, 47, 1888-9 | 13.6 | 4 |
| 92 | Cigarette Smoking Induces Changes in Airway Epithelial Expression of Genes Associated with Monogenic Lung Disorders. *American Journal of Respiratory and Critical Care Medicine*, **2016**, 193, 215-7 | 10.2 | 6 |
| 91 | Indigenous Arabs are descendants of the earliest split from ancient Eurasian populations. *Genome Research*, **2016**, 26, 151-62 | 9.7 | 60 |
| 90 | Adenovirus-Based Vaccines for the Treatment of Substance Use Disorders **2016**, 229-248 | | 1 |
| 89 | Type 2 Diabetes Risk Allele Loci in the Qatari Population. *PLoS ONE*, **2016**, 11, e0156834 | 3.7 | 17 |
| 88 | Anti-Epidermal Growth Factor Receptor Gene Therapy for Glioblastoma. *PLoS ONE*, **2016**, 11, e0162978 | 3.7 | 18 |
| 87 | The Role of Interleukin-23 in the Early Development of Emphysema in HIV1(+) Smokers. *Journal of Immunology Research*, **2016**, 2016, 3463104 | 4.5 | 8 |
| 86 | Anti-hIgE gene therapy of peanut-induced anaphylaxis in a humanized murine model of peanut allergy. *Journal of Allergy and Clinical Immunology*, **2016**, 138, 1652-1662.e7 | 11.5 | 26 |
| 85 | Persistence of circulating endothelial microparticles in COPD despite smoking cessation. *Thorax*, **2016**, 71, 1137-1144 | 7.3 | 28 |
| 84 | Vectored Intracerebral Immunization with the Anti-Tau Monoclonal Antibody PHF1 Markedly Reduces Tau Pathology in Mutant Tau Transgenic Mice. *Journal of Neuroscience*, **2016**, 36, 12425-12435 | 6.6 | 41 |
| 83 | JAG1-Mediated Notch Signaling Regulates Secretory Cell Differentiation of the Human Airway Epithelium. *Stem Cell Reviews and Reports*, **2016**, 12, 454-63 | 6.4 | 15 |
| 82 | POU2AF1 Functions in the Human Airway Epithelium To Regulate Expression of Host Defense Genes. *Journal of Immunology*, **2016**, 196, 3159-67 | 5.3 | 26 |

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| 81 | Gene Therapy for Alpha-1 Antitrypsin Deficiency Lung Disease. *Annals of the American Thoracic Society*, **2016**, 13 Suppl 4, S352-69 | 4.7 | 32 |
| 80 | Efficacy of an adenovirus-based anti-cocaine vaccine to reduce cocaine self-administration and reacqusition using a choice procedure in rhesus macaques. *Pharmacology Biochemistry and Behavior* , **2016**, 150-151, 76-86 | 3.9 | 22 |
| 79 | Sarcoidosis in America. Analysis Based on Health Care Use. *Annals of the American Thoracic Society*, **2016**, 13, 1244-52 | 4.7 | 147 |
| 78 | Role of SLMAP genetic variants in susceptibility of diabetes and diabetic retinopathy in Qatari population. *Journal of Translational Medicine*, **2015**, 13, 61 | 8.5 | 10 |
| 77 | Augmentation treatment for 1 antitrypsin deficiency. *Lancet, The*, **2015**, 386, 318-20 | 40 | 7 |
| 76 | Endothelial MMP14 is required for endothelial-dependent growth support of human airway basal cells. *Journal of Cell Science*, **2015**, 128, 2983-8 | 5.3 | 10 |
| 75 | Intracerebral Gene Therapy Using AAVrh.10-hARSA Recombinant Vector to Treat Patients with Early-Onset Forms of Metachromatic Leukodystrophy: Preclinical Feasibility and Safety Assessments in Nonhuman Primates. *Human Gene Therapy Clinical Development*, **2015**, 26, 113-24 | 3.2 | 54 |
| 74 | Risk of COPD with obstruction in active smokers with normal spirometry and reduced diffusion capacity. *European Respiratory Journal*, **2015**, 46, 1589-1597 | 13.6 | 69 |
| 73 | SOS1 and Ras regulate epithelial tight junction formation in the human airway through EMP1. *EMBO Reports*, **2015**, 16, 87-96 | 6.5 | 16 |
| 72 | Activation of NOTCH1 or NOTCH3 signaling skews human airway basal cell differentiation toward a secretory pathway. *PLoS ONE*, **2015**, 10, e0116507 | 3.7 | 40 |
| 71 | Persistence of smoking-induced dysregulation of miRNA expression in the small airway epithelium despite smoking cessation. *PLoS ONE*, **2015**, 10, e0120824 | 3.7 | 48 |
| 70 | Serum Metabolite Biomarkers Discriminate Healthy Smokers from COPD Smokers. *PLoS ONE*, **2015**, 10, e0143937 | 3.7 | 30 |
| 69 | Evaluation of compounded bevacizumab prepared for intravitreal injection. *JAMA Ophthalmology*, **2015**, 133, 32-9 | 3.9 | 30 |
| 68 | Adenovirus: the first effective in vivo gene delivery vector. *Human Gene Therapy*, **2014**, 25, 3-11 | 4.8 | 193 |
| 67 | Prevention and reversal of severe mitochondrial cardiomyopathy by gene therapy in a mouse model of Friedreich's ataxia. *Nature Medicine*, **2014**, 20, 542-7 | 50.5 | 141 |
| 66 | Airway basal cells. The "smoking gun" of chronic obstructive pulmonary disease. *American Journal of Respiratory and Critical Care Medicine*, **2014**, 190, 1355-62 | 10.2 | 64 |
| 65 | Intra-arterial delivery of AAV vectors to the mouse brain after mannitol mediated blood brain barrier disruption. *Journal of Controlled Release*, **2014**, 196, 71-78 | 11.7 | 54 |
| 64 | AAV-mediated persistent bevacizumab therapy suppresses tumor growth of ovarian cancer. *Gynecologic Oncology*, **2014**, 135, 325-32 | 4.9 | 22 |

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| 63 | "Triplet" polycistronic vectors encoding Gata4, Mef2c, and Tbx5 enhances postinfarct ventricular functional improvement compared with singlet vectors. *Journal of Thoracic and Cardiovascular Surgery*, **2014**, 148, 1656-1664.e2 | 1.5 | 39 |
| 62 | Cannulation of the internal carotid artery in mice: a novel technique for intra-arterial delivery of therapeutics. *Journal of Neuroscience Methods*, **2014**, 222, 106-10 | 3 | 10 |
| 61 | Fate of systemically administered cocaine in nonhuman primates treated with the dAd5GNE anticocaine vaccine. *Human Gene Therapy Clinical Development*, **2014**, 25, 40-9 | 3.2 | 25 |
| 60 | Airway Basal stem/progenitor cells have diminished capacity to regenerate airway epithelium in chronic obstructive pulmonary disease. *American Journal of Respiratory and Critical Care Medicine*, **2014**, 190, 955-8 | 10.2 | 67 |
| 59 | FOXJ1 prevents cilia growth inhibition by cigarette smoke in human airway epithelium in vitro. *American Journal of Respiratory Cell and Molecular Biology*, **2014**, 51, 688-700 | 5.7 | 50 |
| 58 | Exome sequencing identifies potential risk variants for Mendelian disorders at high prevalence in Qatar. *Human Mutation*, **2014**, 35, 105-16 | 4.7 | 37 |
| 57 | Prevalence of the apolipoprotein E Arg145Cys dyslipidemia at-risk polymorphism in African-derived populations. *American Journal of Cardiology*, **2014**, 113, 302-8 | 3 | 9 |
| 56 | Intraflagellar transport gene expression associated with short cilia in smoking and COPD. *PLoS ONE* , **2014**, 9, e85453 | 3.7 | 51 |
| 55 | Smoking dysregulates the human airway basal cell transcriptome at COPD risk locus 19q13.2. *PLoS ONE*, **2014**, 9, e88051 | 3.7 | 55 |
| 54 | Lumbar spine intervertebral disc gene delivery: a pilot study in lewis rats. *HSS Journal*, **2013**, 9, 36-41 | 2 | 3 |
| 53 | Advances in the treatment of neuronal ceroid lipofuscinosis. *Expert Opinion on Orphan Drugs*, **2013**, 1, 951-975 | 1.1 | 6 |
| 52 | Cigarette smoking induces small airway epithelial epigenetic changes with corresponding modulation of gene expression. *Human Molecular Genetics*, **2013**, 22, 4726-38 | 5.6 | 77 |
| 51 | Generation of a human airway epithelium derived basal cell line with multipotent differentiation capacity. *Respiratory Research*, **2013**, 14, 135 | 7.3 | 73 |
| 50 | Disrupted adenovirus-based vaccines against small addictive molecules circumvent anti-adenovirus immunity. *Human Gene Therapy*, **2013**, 24, 58-66 | 4.8 | 24 |
| 49 | Suppression of nicotine-induced pathophysiology by an adenovirus hexon-based antinicotine vaccine. *Human Gene Therapy*, **2013**, 24, 595-603 | 4.8 | 18 |
| 48 | Airway basal cells of healthy smokers express an embryonic stem cell signature relevant to lung cancer. *Stem Cells*, **2013**, 31, 1992-2002 | 5.8 | 19 |
| 47 | EGF shifts human airway basal cell fate toward a smoking-associated airway epithelial phenotype. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 12102-7 | 11.5 | 71 |
| 46 | Adenovirus capsid-based anti-cocaine vaccine prevents cocaine from binding to the nonhuman primate CNS dopamine transporter. *Neuropsychopharmacology*, **2013**, 38, 2170-8 | 8.7 | 38 |

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| 45 | Spectrum of ocular manifestations in CLN2-associated batten (Jansky-Bielschowsky) disease correlate with advancing age and deteriorating neurological function. *PLoS ONE*, **2013**, 8, e73128 | 3.7 | 27 |
| 44 | RNA-Seq quantification of the human small airway epithelium transcriptome. *BMC Genomics*, **2012**, 13, 82 | 4.5 | 93 |
| 43 | Long-term expression and safety of administration of AAVrh.10hCLN2 to the brain of rats and nonhuman primates for the treatment of late infantile neuronal ceroid lipofuscinosis. *Human Gene Therapy Methods*, **2012**, 23, 324-35 | 4.9 | 78 |
| 42 | Genes associated with MUC5AC expression in small airway epithelium of human smokers and non-smokers. *BMC Medical Genomics*, **2012**, 5, 21 | 3.7 | 43 |
| 41 | Exome sequencing of only seven Qataris identifies potentially deleterious variants in the Qatari population. *PLoS ONE*, **2012**, 7, e47614 | 3.7 | 15 |
| 40 | Novel cocaine vaccine linked to a disrupted adenovirus gene transfer vector blocks cocaine psychostimulant and reinforcing effects. *Neuropsychopharmacology*, **2012**, 37, 1083-91 | 8.7 | 53 |
| 39 | Double-blinded, placebo-controlled, randomized gene therapy using surgery for vector delivery. *Human Gene Therapy*, **2012**, 23, 438-41 | 4.8 | 11 |
| 38 | Cardiac Biointerventions Whatever Happened to Stem Cell and Gene Therapy?. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2012**, 7, 173-179 | 1.5 | |
| 37 | The human airway epithelial basal cell transcriptome. *PLoS ONE*, **2011**, 6, e18378 | 3.7 | 142 |
| 36 | Biologic phenotyping of the human small airway epithelial response to cigarette smoking. *PLoS ONE*, **2011**, 6, e22798 | 3.7 | 55 |
| 35 | Circulating endothelial microparticles as a measure of early lung destruction in cigarette smokers. *American Journal of Respiratory and Critical Care Medicine*, **2011**, 184, 224-32 | 10.2 | 161 |
| 34 | Cocaine analog coupled to disrupted adenovirus: a vaccine strategy to evoke high-titer immunity against addictive drugs. *Molecular Therapy*, **2011**, 19, 612-9 | 11.7 | 50 |
| 33 | Gene therapy for late infantile neuronal ceroid lipofuscinosis: neurosurgical considerations. *Journal of Neurosurgery: Pediatrics*, **2010**, 6, 115-22 | 2.1 | 51 |
| 32 | Population genetic structure of the people of Qatar. *American Journal of Human Genetics*, **2010**, 87, 17-25 | 11 | 86 |
| 31 | Coordinate control of expression of Nrf2-modulated genes in the human small airway epithelium is highly responsive to cigarette smoking. *Molecular Medicine*, **2009**, 15, 203-19 | 6.2 | 70 |
| 30 | Smoking-dependent reprogramming of alveolar macrophage polarization: implication for pathogenesis of chronic obstructive pulmonary disease. *Journal of Immunology*, **2009**, 183, 2867-83 | 5.3 | 286 |
| 29 | Cigarette smoking induces overexpression of a fat-depleting gene AZGP1 in the human. *Chest*, **2009**, 135, 1197-1208 | 5.3 | 32 |
| 28 | The effect of systemic antioxidant supplementation on lung compartment antioxidants and systemic and lung-specific F2-isoprostane concentrations. *FASEB Journal*, **2009**, 23, LB484 | 0.9 | |

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| 27 | Survival advantage of neonatal CNS gene transfer for late infantile neuronal ceroid lipofuscinosis. *Experimental Neurology*, **2008**, 213, 18-27 | 5.7 | 56 |
| 26 | Treatment of late infantile neuronal ceroid lipofuscinosis by CNS administration of a serotype 2 adeno-associated virus expressing CLN2 cDNA. *Human Gene Therapy*, **2008**, 19, 463-74 | 4.8 | 314 |
| 25 | Airway epithelial cells: current concepts and challenges. *Proceedings of the American Thoracic Society*, **2008**, 5, 772-7 | | 209 |
| 24 | Variability in small airway epithelial gene expression among normal smokers. *Chest*, **2008**, 133, 1344-1353 | 5.3 | 44 |
| 23 | Modification of gene expression of the small airway epithelium in response to cigarette smoking. *Journal of Molecular Medicine*, **2007**, 85, 39-53 | 5.5 | 151 |
| 22 | Enhanced survival of the LINCL mouse following CLN2 gene transfer using the rh.10 rhesus macaque-derived adeno-associated virus vector. *Molecular Therapy*, **2007**, 15, 481-91 | 11.7 | 134 |
| 21 | High levels of persistent expression of alpha1-antitrypsin mediated by the nonhuman primate serotype rh.10 adeno-associated virus despite preexisting immunity to common human adeno-associated viruses. *Molecular Therapy*, **2006**, 13, 67-76 | 11.7 | 103 |
| 20 | Clinical protocol. Administration of a replication-deficient adeno-associated virus gene transfer vector expressing the human CLN2 cDNA to the brain of children with late infantile neuronal ceroid lipofuscinosis. *Human Gene Therapy*, **2004**, 15, 1131-54 | 4.8 | 107 |
| 19 | Tie-2 Activation Is Required for Regeneration of Marrow Vasculature, Supporting Hematopoietic Reconstitution.. *Blood*, **2004**, 104, 1297-1297 | 2.2 | |
| 18 | Adenovirus Vector E4 Gene Promotes Angiogenesis through Modulation of Junctional Connexin 40 and 43 Expression.. *Blood*, **2004**, 104, 5277-5277 | 2.2 | |
| 17 | Correction of a Murine Model of Von Willebrand Disease by Gene Transfer.. *Blood*, **2004**, 104, 3180-3180 | 2.2 | |
| 16 | Future research directions in idiopathic pulmonary fibrosis: summary of a National Heart, Lung, and Blood Institute working group. *American Journal of Respiratory and Critical Care Medicine*, **2002**, 166, 236-46 | 10.2 | 140 |
| 15 | Safety of local delivery of low- and intermediate-dose adenovirus gene transfer vectors to individuals with a spectrum of morbid conditions. *Human Gene Therapy*, **2002**, 13, 15-63 | 4.8 | 123 |
| 14 | Analysis of risk factors for local delivery of low- and intermediate-dose adenovirus gene transfer vectors to individuals with a spectrum of comorbid conditions. *Human Gene Therapy*, **2002**, 13, 65-100 | 4.8 | 74 |
| 13 | Percutaneous endocardial transfer and expression of genes to the myocardium utilizing fluoroscopic guidance. *Catheterization and Cardiovascular Interventions*, **2001**, 52, 260-6 | 2.7 | 26 |
| 12 | Enhanced matrix synthesis and in vitro formation of cartilage-like tissue by genetically modified chondrocytes expressing BMP-7. *Journal of Orthopaedic Research*, **2001**, 19, 751-8 | 3.8 | 58 |
| 11 | Impaired recruitment of bone-marrow-derived endothelial and hematopoietic precursor cells blocks tumor angiogenesis and growth. *Nature Medicine*, **2001**, 7, 1194-201 | 50.5 | 1633 |
| 10 | Adenovirus-mediated gene transfer of VEGF(121) improves lower-extremity endothelial function and flow reserve. *Circulation*, **2001**, 104, 753-5 | 16.7 | 110 |

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| 9 | Upregulation of transcription factors in lung in the early phase of postpneumonectomy lung growth. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2001**, 281, L1138-49 | 5.8 | 34 |
| 8 | Dendritic cells genetically modified to express CD40 ligand and pulsed with antigen can initiate antigen-specific humoral immunity independent of CD4+ T cells. *Nature Medicine*, **2000**, 6, 1154-9 | 50.5 | 79 |
| 7 | Use of L-plastin promoter to develop an adenoviral system that confers transgene expression in ovarian cancer cells but not in normal mesothelial cells. *Cancer Gene Therapy*, **1999**, 6, 99-106 | 5.4 | 48 |
| 6 | The gene as the drug. *Nature Medicine*, **1995**, 1, 15-7 | 50.5 | 130 |
| 5 | In vivo transfer of the human cystic fibrosis transmembrane conductance regulator gene to the airway epithelium. *Cell*, **1992**, 68, 143-55 | 56.2 | 893 |
| 4 | Interstitial lung diseases of unknown cause. Disorders characterized by chronic inflammation of the lower respiratory tract (first of two parts). *New England Journal of Medicine*, **1984**, 310, 154-66 | 59.2 | 591 |
| 3 | Cells, collagen and idiopathic pulmonary fibrosis. *Lung*, **1978**, 155, 199-224 | 2.9 | 62 |
| 2 | Small airways in idiopathic pulmonary fibrosis. Comparison of morphologic and physiologic observations. *Journal of Clinical Investigation*, **1977**, 60, 595-610 | 15.9 | 129 |
| 1 | Apoptosis Induced by Pseudomonas aeruginosa in Antigen Presenting Cells Is Diminished by Genetic Modification with CD40 Ligand | | 2 |