

# Leroy Hood

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1033037/publications.pdf>

Version: 2024-02-01

408  
papers

77,929  
citations

1118

115  
h-index

573

269  
g-index

435  
all docs

435  
docs citations

435  
times ranked

85268  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Initial sequencing and analysis of the human genome. <i>Nature</i> , 2001, 409, 860-921.  | 13.7 | 21,074    |
| 2  | A distinct lineage of CD4 T cells regulates tissue inflammation by producing interleukin 17. <i>Nature Immunology</i> , 2005, 6, 1133-1141.   | 7.0  | 3,869     |
| 3  | Integration of biological networks and gene expression data using Cytoscape. <i>Nature Protocols</i> , 2007, 2, 2366-2382.  | 5.5  | 2,275     |
| 4  | Integrated Genomic and Proteomic Analyses of a Systematically Perturbed Metabolic Network. <i>Science</i> , 2001, 292, 929-934.   | 6.0  | 1,921     |
| 5  | Direct multiplexed measurement of gene expression with color-coded probe pairs. <i>Nature Biotechnology</i> , 2008, 26, 317-325.  | 9.4  | 1,832     |
| 6  | A NEW APPROACH TO DECODING LIFE: Systems Biology. <i>Annual Review of Genomics and Human Genetics</i> , 2001, 2, 343-372.   | 2.5  | 1,455     |
| 7  | Whole-Genome Shotgun Assembly and Analysis of the Genome of <i>Fugu rubripes</i> . <i>Science</i> , 2002, 297, 1301-1310.   | 6.0  | 1,432     |
| 8  | A Genomic Regulatory Network for Development. <i>Science</i> , 2002, 295, 1669-1678.  | 6.0  | 1,399     |
| 9  | Alagille syndrome is caused by mutations in human <i>Jagged1</i> , which encodes a ligand for Notch1. <i>Nature Genetics</i> , 1997, 16, 243-251.                                     | 9.4  | 1,184     |
| 10 | Analysis of Genetic Inheritance in a Family Quartet by Whole-Genome Sequencing. <i>Science</i> , 2010, 328, 636-639.  | 6.0  | 979       |
| 11 | Systems Biology and New Technologies Enable Predictive and Preventative Medicine. <i>Science</i> , 2004, 306, 640-643.  | 6.0  | 977       |
| 12 | Systems Biology, Proteomics, and the Future of Health Care: Toward Predictive, Preventative, and Personalized Medicine. <i>Journal of Proteome Research</i> , 2004, 3, 179-196.       | 1.8  | 680       |
| 13 | Transgenic mice that express a myelin basic protein-specific T cell receptor develop spontaneous autoimmunity. <i>Cell</i> , 1993, 72, 551-560.                                       | 13.5 | 657       |
| 14 | Death Receptor 5, a New Member of the TNFR Family, and DR4 Induce FADD-Dependent Apoptosis and Activate the NF- $\kappa$ B Pathway. <i>Immunity</i> , 1997, 7, 821-830.               | 6.6  | 656       |
| 15 | Predictive, personalized, preventive, participatory (P4) cancer medicine. <i>Nature Reviews Clinical Oncology</i> , 2011, 8, 184-187.   | 12.5 | 628       |
| 16 | Multiple early factors anticipate post-acute COVID-19 sequelae. <i>Cell</i> , 2022, 185, 881-895.e20.   | 13.5 | 605       |
| 17 | Restricted use of T cell receptor V genes in murine autoimmune encephalomyelitis raises possibilities for antibody therapy. <i>Cell</i> , 1988, 54, 577-592.                          | 13.5 | 596       |
| 18 | Complementary Profiling of Gene Expression at the Transcriptome and Proteome Levels in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Proteomics</i> , 2002, 1, 323-333. | 2.5  | 591       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Integrated barcode chips for rapid, multiplexed analysis of proteins in microliter quantities of blood. <i>Nature Biotechnology</i> , 2008, 26, 1373-1378.  | 9.4  | 507       |
| 20 | A single VH gene segment encodes the immune response to phosphorylcholine: Somatic mutation is correlated with the class of the antibody. <i>Cell</i> , 1981, 25, 59-66.                                    | 13.5 | 496       |
| 21 | IgG antibodies to phosphorylcholine exhibit more diversity than their IgM counterparts. <i>Nature</i> , 1981, 291, 29-34.   | 13.7 | 492       |
| 22 | A molecular map of the immune response region from the major histocompatibility complex of the mouse. <i>Nature</i> , 1982, 300, 35-42.   | 13.7 | 460       |
| 23 | The Inferelator: an algorithm for learning parsimonious regulatory networks from systems-biology data sets de novo. <i>Genome Biology</i> , 2006, 7, R36.   | 13.9 | 456       |
| 24 | Introduced T cell receptor variable region gene segments recombine in pre-B cells: Evidence that B and T cells use a common recombinase. <i>Cell</i> , 1986, 44, 251-259.                                   | 13.5 | 455       |
| 25 | Clusters of genes encoding mouse transplantation antigens. <i>Cell</i> , 1982, 28, 489-498.   | 13.5 | 449       |
| 26 | Multi-Omics Resolves a Sharp Disease-State Shift between Mild and Moderate COVID-19. <i>Cell</i> , 2020, 183, 1479-1495.e20.  | 13.5 | 449       |
| 27 | A personal view on systems medicine and the emergence of proactive P4 medicine: predictive, preventive, personalized and participatory. <i>New Biotechnology</i> , 2012, 29, 613-624.                       | 2.4  | 442       |
| 28 | Mouse T cell antigen receptor: Structure and organization of constant and joining gene segments encoding the $\hat{\text{T}}^2$ polypeptide. <i>Cell</i> , 1984, 37, 1101-1110.                             | 13.5 | 422       |
| 29 | P4 medicine: how systems medicine will transform the healthcare sector and society. <i>Personalized Medicine</i> , 2013, 10, 565-576.   | 0.8  | 422       |
| 30 | The program of androgen-responsive genes in neoplastic prostate epithelium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11890-11895.                 | 3.3  | 407       |
| 31 | PTEN-deficient intestinal stem cells initiate intestinal polyposis. <i>Nature Genetics</i> , 2007, 39, 189-198.   | 9.4  | 391       |
| 32 | Hematopoietic Stem Cells Contribute to the Regeneration of Renal Tubules after Renal Ischemia-Reperfusion Injury in Mice. <i>Journal of the American Society of Nephrology: JASN</i> , 2003, 14, 1188-1199. | 3.0  | 387       |
| 33 | Conserved organization of the human and murine T-cell receptor $\hat{\text{T}}^2$ -gene families. <i>Nature</i> , 1988, 331, 543-546.   | 13.7 | 374       |
| 34 | Gene Families: The Taxonomy of Protein Paralogs and Chimeras. <i>Science</i> , 1997, 278, 609-614.  | 6.0  | 362       |
| 35 | Comparative hybridization of an array of 21 500 ovarian cDNAs for the discovery of genes overexpressed in ovarian carcinomas. <i>Gene</i> , 1999, 238, 375-385.   | 1.0  | 342       |
| 36 | Antibody diversity: Somatic hypermutation of rearranged VH genes. <i>Cell</i> , 1981, 27, 573-581.  | 13.5 | 340       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | A pseudogene homologous to mouse transplantation antigens: Transplantation antigens are encoded by eight exons that correlate with protein domains. <i>Cell</i> , 1981, 25, 683-692.                          | 13.5 | 340       |
| 38 | A wellness study of 108 individuals using personal, dense, dynamic data clouds. <i>Nature Biotechnology</i> , 2017, 35, 747-756.  | 9.4  | 340       |
| 39 | A new strategy for genome sequencing. <i>Nature</i> , 1996, 381, 364-366.   | 13.7 | 338       |
| 40 | Systems medicine: the future of medical genomics and healthcare. <i>Genome Medicine</i> , 2009, 1, 2.   | 3.6  | 333       |
| 41 | A Provisional Regulatory Gene Network for Specification of Endomesoderm in the Sea Urchin Embryo. <i>Developmental Biology</i> , 2002, 246, 162-190.  | 0.9  | 319       |
| 42 | An immunoglobulin heavy-chain gene is formed by at least two recombinational events. <i>Nature</i> , 1980, 283, 733-739.  | 13.7 | 305       |
| 43 | Quantitative phosphoproteome analysis using a dendrimer conjugation chemistry and tandem mass spectrometry. <i>Nature Methods</i> , 2005, 2, 591-598.   | 9.0  | 302       |
| 44 | The human t cell antigen receptor is encoded by variable, diversity, and joining gene segments that rearrange to generate a complete V gene. <i>Cell</i> , 1984, 37, 393-401.                                 | 13.5 | 300       |
| 45 | Single-cell proteomic chip for profiling intracellular signaling pathways in single tumor cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 419-424. | 3.3  | 300       |
| 46 | The structure, rearrangement and expression of D $\beta$ gene segments of the murine T-cell antigen receptor. <i>Nature</i> , 1984, 311, 344-349.   | 13.7 | 299       |
| 47 | Human SRMATlas: A Resource of Targeted Assays to Quantify the Complete Human Proteome. <i>Cell</i> , 2016, 166, 766-778.  | 13.5 | 295       |
| 48 | The murine T-cell receptor uses a limited repertoire of expressed V $\beta$ gene segments. <i>Nature</i> , 1985, 316, 517-523.  | 13.7 | 294       |
| 49 | Understanding the Adaptation of Halobacterium Species NRC-1 to Its Extreme Environment through Computational Analysis of Its Genome Sequence. <i>Genome Research</i> , 2001, 11, 1641-1650.                   | 2.4  | 294       |
| 50 | A data integration methodology for systems biology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17296-17301.  | 3.3  | 293       |
| 51 | Evidence for a Rare Prostate Cancer Susceptibility Locus at Chromosome 1p36. <i>American Journal of Human Genetics</i> , 1999, 64, 776-787.   | 2.6  | 292       |
| 52 | A Predictive Model for Transcriptional Control of Physiology in a Free Living Cell. <i>Cell</i> , 2007, 131, 1354-1365.   | 13.5 | 284       |
| 53 | Gut microbiome pattern reflects healthy ageing and predicts survival in humans. <i>Nature Metabolism</i> , 2021, 3, 274-286.  | 5.1  | 278       |
| 54 | Monitoring gene expression profile changes in ovarian carcinomas using cDNA microarray. <i>Gene</i> , 1999, 229, 101-108.   | 1.0  | 277       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 55 | Diversity of the Immunoglobulin Gene Superfamily. <i>Advances in Immunology</i> , 1989, 44, 1-63.  | 1.1  | 274       |
| 56 | Modulation of the NF- $\kappa$ B pathway by virally encoded Death Effector Domains-containing proteins. <i>Oncogene</i> , 1999, 18, 5738-5746.   | 2.6  | 271       |
| 57 | Genome sequence of <i>Haloarcula marismortui</i> : A halophilic archaeon from the Dead Sea. <i>Genome Research</i> , 2004, 14, 2221-2234.  | 2.4  | 268       |
| 58 | The Human Homolog of Rat Jagged1 Expressed by Marrow Stroma Inhibits Differentiation of 32D Cells through Interaction with Notch1. <i>Immunity</i> , 1998, 8, 43-55.                                 | 6.6  | 261       |
| 59 | A molecular correlate to the Gleason grading system for prostate adenocarcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 10991-10996.    | 3.3  | 261       |
| 60 | Dysregulated gene expression networks in human acute myelogenous leukemia stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 3396-3401. | 3.3  | 253       |
| 61 | Asparagine-linked glycosylation of the scrapie and cellular prion proteins. <i>Archives of Biochemistry and Biophysics</i> , 1989, 274, 1-13.  | 1.4  | 246       |
| 62 | Systems biology: integrating technology, biology, and computation. <i>Mechanisms of Ageing and Development</i> , 2003, 124, 9-16.  | 2.2  | 235       |
| 63 | Proteomic analysis of human prostasomes. <i>Prostate</i> , 2003, 56, 150-161.  | 1.2  | 226       |
| 64 | The digital code of DNA. <i>Nature</i> , 2003, 421, 444-448.   | 13.7 | 226       |
| 65 | The T cell receptor $\beta$ chain genes are located on chromosome 6 in mice and chromosome 7 in humans. <i>Cell</i> , 1984, 37, 1091-1099.   | 13.5 | 225       |
| 66 | Revolutionizing medicine in the 21 <sup>st</sup> century through systems approaches. <i>Biotechnology Journal</i> , 2012, 7, 992-1001.   | 1.8  | 225       |
| 67 | Activation of the NF- $\kappa$ B pathway by Caspase 8 and its homologs. <i>Oncogene</i> , 2000, 19, 4451-4460.   | 2.6  | 219       |
| 68 | Genomic organization of the genes encoding mouse T-cell receptor $\beta$ -chain. <i>Nature</i> , 1985, 316, 832-836.   | 13.7 | 216       |
| 69 | Predominant use of a $\beta$ gene segment in mouse T-cell receptors for cytochrome c. <i>Nature</i> , 1986, 324, 679-682.  | 13.7 | 214       |
| 70 | The impact of systems approaches on biological problems in drug discovery. <i>Nature Biotechnology</i> , 2004, 22, 1215-1217.  | 9.4  | 213       |
| 71 | Blood metabolome predicts gut microbiome $\alpha$ -diversity in humans. <i>Nature Biotechnology</i> , 2019, 37, 1217-1228.   | 9.4  | 213       |
| 72 | Regulatory gene networks and the properties of the developmental process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1475-1480.             | 3.3  | 211       |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 73 | Label-Free Quantitative Detection of Tumor-Derived Exosomes through Surface Plasmon Resonance Imaging. <i>Analytical Chemistry</i> , 2014, 86, 8857-8864.  | 3.2  | 211       |
| 74 | Systems Biology and P4 Medicine: Past, Present, and Future. <i>Rambam Maimonides Medical Journal</i> , 2013, 4, e0012.   | 0.4  | 208       |
| 75 | Genetic Effects on Age-Dependent Onset and Islet Cell Autoantibody Markers in Type 1 Diabetes. <i>Diabetes</i> , 2002, 51, 1346-1355.  | 0.3  | 203       |
| 76 | Mouse epidermal Ia molecules have a bone marrow origin. <i>Nature</i> , 1979, 282, 321-323.  | 13.7 | 194       |
| 77 | A T cell clone expresses two T cell receptor $\alpha$ genes but uses one $\alpha\beta$ heterodimer for allorecognition and self MHC-restricted antigen recognition. <i>Cell</i> , 1988, 55, 49-59. | 13.5 | 190       |
| 78 | The human genome project: big science transforms biology and medicine. <i>Genome Medicine</i> , 2013, 5, 79.   | 3.6  | 184       |
| 79 | Rearrangement and transcription of the $\beta$ -chain genes of the T-cell antigen receptor in different types of murine lymphocytes. <i>Nature</i> , 1985, 313, 647-653.                           | 13.7 | 183       |
| 80 | Systems medicine and integrated care to combat chronic noncommunicable diseases. <i>Genome Medicine</i> , 2011, 3, 43.   | 3.6  | 181       |
| 81 | Mutations in STX1B, encoding a presynaptic protein, cause fever-associated epilepsy syndromes. <i>Nature Genetics</i> , 2014, 46, 1327-1332.   | 9.4  | 178       |
| 82 | The P4 Health Spectrum – A Predictive, Preventive, Personalized and Participatory Continuum for Promoting Healthspan. <i>Progress in Cardiovascular Diseases</i> , 2017, 59, 506-521.              | 1.6  | 178       |
| 83 | The Human T-Cell Receptor TCRAC/TCRDC ( $\alpha$ / $\delta$ ) Region: Organization, Sequence, and Evolution of 97.6 kb of DNA. <i>Genomics</i> , 1994, 19, 478-493.                                | 1.3  | 171       |
| 84 | Differential gene expression profiling of adult murine hematopoietic stem cells. <i>Blood</i> , 2002, 99, 488-498.   | 0.6  | 168       |
| 85 | Boosting Signal-to-Noise in Complex Biology: Prior Knowledge Is Power. <i>Cell</i> , 2011, 144, 860-863.   | 13.5 | 167       |
| 86 | A Blood-Based Proteomic Classifier for the Molecular Characterization of Pulmonary Nodules. <i>Science Translational Medicine</i> , 2013, 5, 207ra142.   | 5.8  | 165       |
| 87 | Analysis of the Human Neurexin Genes: Alternative Splicing and the Generation of Protein Diversity. <i>Genomics</i> , 2002, 79, 587-597.   | 1.3  | 164       |
| 88 | Comparative Genomics of the Human and Mouse T Cell Receptor Loci. <i>Immunity</i> , 2001, 15, 337-349.   | 6.6  | 163       |
| 89 | Identification of the class I genes of the mouse major histocompatibility complex by DNA-mediated gene transfer. <i>Nature</i> , 1982, 300, 231-237.   | 13.7 | 160       |
| 90 | Striking sequence similarity over almost 100 kilobases of human and mouse T cell receptor DNA. <i>Nature Genetics</i> , 1994, 7, 48-53.  | 9.4  | 160       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 91  | Activated Notch4 Inhibits Angiogenesis: Role of $\beta$ 1-Integrin Activation. <i>Molecular and Cellular Biology</i> , 2002, 22, 2830-2841.  | 1.1  | 157       |
| 92  | Direct evidence for chromosomal inversion during T-cell receptor $\beta$ -gene rearrangements. <i>Nature</i> , 1986, 319, 28-33.   | 13.7 | 152       |
| 93  | Shotgun Glycopeptide Capture Approach Coupled with Mass Spectrometry for Comprehensive Glycoproteomics. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 141-149.   | 2.5  | 152       |
| 94  | Rare variants in neuronal excitability genes influence risk for bipolar disorder. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 3576-3581.   | 3.3  | 152       |
| 95  | Highly accurate two-gene classifier for differentiating gastrointestinal stromal tumors and leiomyosarcomas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3414-3419.                | 3.3  | 144       |
| 96  | Predictive, preventive, personalized and participatory medicine: back to the future. <i>Genome Medicine</i> , 2010, 2, 57.   | 3.6  | 144       |
| 97  | Lipopolysaccharide Mediates Endothelial Apoptosis by a FADD-dependent Pathway. <i>Journal of Biological Chemistry</i> , 1998, 273, 20185-20188.  | 1.6  | 141       |
| 98  | Cancer as robust intrinsic state of endogenous molecular-cellular network shaped by evolution. <i>Medical Hypotheses</i> , 2008, 70, 678-684.  | 0.8  | 141       |
| 99  | Organization, structure, and function of 95 kb of DNA spanning the murine T-cell receptor $C\beta$ region. <i>Genomics</i> , 1992, 13, 1209-1230.  | 1.3  | 139       |
| 100 | One heavy chain variable region gene segment subfamily in the BALBc mouse contains 500-1000 or more members. <i>Cell</i> , 1986, 47, 461-470.  | 13.5 | 138       |
| 101 | Optimized conditions for pulsed field gel electrophoretic separations of DNA. <i>Nucleic Acids Research</i> , 1988, 16, 7563-7582.   | 6.5  | 138       |
| 102 | Proteomic analysis identifies that 14-3-3 $\sigma$ interacts with $\beta$ -catenin and facilitates its activation by Akt. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 15370-15375. | 3.3  | 138       |
| 103 | A Combined Genomewide Linkage Scan of 1,233 Families for Prostate Cancer-Susceptibility Genes Conducted by the International Consortium for Prostate Cancer Genetics. <i>American Journal of Human Genetics</i> , 2005, 77, 219-229.       | 2.6  | 138       |
| 104 | Participatory medicine: a driving force for revolutionizing healthcare. <i>Genome Medicine</i> , 2013, 5, 110.   | 3.6  | 137       |
| 105 | The Generation of Diversity in Phosphorylcholine-Binding Antibodies. <i>Advances in Immunology</i> , 1984, 35, 1-37.   | 1.1  | 136       |
| 106 | Genome-Wide Analysis of Epigenetic Silencing Identifies BEX1 and BEX2 as Candidate Tumor Suppressor Genes in Malignant Glioma. <i>Cancer Research</i> , 2006, 66, 6665-6674.   | 0.4  | 135       |
| 107 | Elevated expression of DKK1 is associated with cytoplasmic/nuclear $\beta$ -catenin accumulation and poor prognosis in hepatocellular carcinomas. <i>Journal of Hepatology</i> , 2009, 50, 948-957.  | 1.8  | 131       |
| 108 | Systems Level Insights Into the Stress Response to UV Radiation in the Halophilic Archaeon <i>Halobacterium NRC-1</i> . <i>Genome Research</i> , 2004, 14, 1025-1035.  | 2.4  | 130       |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 109 | A novel Fanconi anaemia subtype associated with a dominant-negative mutation in RAD51. Nature Communications, 2015, 6, 8829.   | 5.8  | 130       |
| 110 | The joining of V and J gene segments creates antibody diversity. Nature, 1980, 283, 497-499.   | 13.7 | 129       |
| 111 | Rearranged $\hat{V}^2$ t cell receptor genes in a helper t cell clone specific for lysozyme: No correlation between $\hat{V}^2$ and MHC restriction. Cell, 1985, 40, 859-867.  | 13.5 | 128       |
| 112 | GrpL, a Grb2-related Adaptor Protein, Interacts with SLP-76 to Regulate Nuclear Factor of Activated T Cell Activation. Journal of Experimental Medicine, 1999, 189, 1243-1253.   | 4.2  | 128       |
| 113 | A single gene encodes soluble and membrane-bound forms of the major histocompatibility Qa-2 antigen: Anchoring of the product by a phospholipid tail. Cell, 1987, 50, 759-768.   | 13.5 | 125       |
| 114 | Identification of a diversity segment of human T-cell receptor $\hat{V}^2$ -chain, and comparison with the analogous murine element. Nature, 1984, 311, 387-389.   | 13.7 | 124       |
| 115 | Coordinate regulation of energy transduction modules in Halobacterium sp. analyzed by a global systems approach. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 14913-14918. | 3.3  | 123       |
| 116 | Parallel microfluidic surface plasmon resonance imaging arrays. Lab on A Chip, 2010, 10, 581.  | 3.1  | 123       |
| 117 | The dysmyelinating mouse mutations shiverer (shi) and myelin deficient (shi mld ). Behavior Genetics, 1990, 20, 213-234.   | 1.4  | 122       |
| 118 | Sequencing the Human Genome. Science, 1997, 278, 605-607.  | 6.0  | 121       |
| 119 | Proteins Associated with Cisplatin Resistance in Ovarian Cancer Cells Identified by Quantitative Proteomic Technology and Integrated with mRNA Expression Levels. Molecular and Cellular Proteomics, 2006, 5, 433-443.   | 2.5  | 118       |
| 120 | A speculative view of the multicomponent nature of T cell antigen recognition. Cell, 1986, 45, 475-484.  | 13.5 | 117       |
| 121 | Linkage Analysis of 49 High-Risk Families Does Not Support a Common Familial Prostate Cancerâ€™Susceptibility Gene at 1q24-25. American Journal of Human Genetics, 1997, 61, 347-353.                                    | 2.6  | 114       |
| 122 | Expression and function of transplantation antigens with altered or deleted cytoplasmic domains. Cell, 1983, 34, 535-544.  | 13.5 | 113       |
| 123 | Snapshot of a Large Dynamic Replicon in a Halophilic Archaeon: Megaplasmid or Minichromosome?. Genome Research, 1998, 8, 1131-1141.  | 2.4  | 113       |
| 124 | The DNA sequence and analysis of human chromosome 14. Nature, 2003, 421, 601-607.  | 13.7 | 108       |
| 125 | Immunology: The growing immunoglobulin gene superfamily. Nature, 1986, 323, 15-16.   | 13.7 | 105       |
| 126 | Evidence for the Presence of Disease-Perturbed Networks in Prostate Cancer Cells by Genomic and Proteomic Analyses: A Systems Approach to Disease. Cancer Research, 2005, 65, 3081-3091.                                 | 0.4  | 104       |



| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 127 | From functional genomics to systems biology: concepts and practices. <i>Comptes Rendus - Biologies</i> , 2003, 326, 879-892.  | 0.1  | 103       |
| 128 | Electrochemically Programmed, Spatially Selective Biofunctionalization of Silicon Wires. <i>Langmuir</i> , 2004, 20, 10630-10638.   | 1.6  | 102       |
| 129 | Detailed transcriptome atlas of the pancreatic beta cell. <i>BMC Medical Genomics</i> , 2009, 2, 3.   | 0.7  | 102       |
| 130 | Morphometric Analysis of Normal, Mutant, and Transgenic CNS: Correlation of Myelin Basic Protein Expression to Myelination. <i>Journal of Neurochemistry</i> , 1992, 58, 342-349.   | 2.1  | 101       |
| 131 | Pairwise end sequencing: a unified approach to genomic mapping and sequencing. <i>Genomics</i> , 1995, 26, 345-353.   | 1.3  | 101       |
| 132 | Rabbit Antibody Light Chains and Gene Evolution. <i>Nature</i> , 1970, 228, 1040-1044.  | 13.7 | 98        |
| 133 | Toxoplasma Modulates Signature Pathways of Human Epilepsy, Neurodegeneration & Cancer. <i>Scientific Reports</i> , 2017, 7, 11496.  | 1.6  | 97        |
| 134 | Cell population structure prior to bifurcation predicts efficiency of directed differentiation in human induced pluripotent cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2271-2276. | 3.3  | 96        |
| 135 | Is gene expression in <i>Halobacterium</i> NRC-1 regulated by multiple TBP and TFB transcription factors?. <i>MicroCorrespondence. Molecular Microbiology</i> , 2000, 36, 1184-1185.  | 1.2  | 94        |
| 136 | Analysis of the Gene-Dense Major Histocompatibility Complex Class III Region and Its Comparison to Mouse. <i>Genome Research</i> , 2003, 13, 2621-2636.   | 2.4  | 94        |
| 137 | Predictive Big Data Analytics: A Study of Parkinson's Disease Using Large, Complex, Heterogeneous, Incongruent, Multi-Source and Incomplete Observations. <i>PLoS ONE</i> , 2016, 11, e0157077.   | 1.1  | 94        |
| 138 | A unified test of linkage analysis and rare-variant association for analysis of pedigree sequence data. <i>Nature Biotechnology</i> , 2014, 32, 663-669.  | 9.4  | 93        |
| 139 | Autoimmune T cells: Immune recognition of normal and variant peptide epitopes and peptide-based therapy. <i>Cell</i> , 1989, 59, 257-271.   | 13.5 | 90        |
| 140 | Evolutionary history of Tibetans inferred from whole-genome sequencing. <i>PLoS Genetics</i> , 2017, 13, e1006675.  | 1.5  | 89        |
| 141 | A Genomic Scan of Families with Prostate Cancer Identifies Multiple Regions of Interest. <i>American Journal of Human Genetics</i> , 2000, 67, 100-109.   | 2.6  | 88        |
| 142 | brp and blh Are Required for Synthesis of the Retinal Cofactor of Bacteriorhodopsin in <i>Halobacterium salinarum</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 5739-5744.  | 1.6  | 87        |
| 143 | A Review of Computational Tools in microRNA Discovery. <i>Frontiers in Genetics</i> , 2013, 4, 81.  | 1.1  | 86        |
| 144 | The myelin proteins of the shark brain are similar to the myelin proteins of the mammalian peripheral nervous system. <i>Journal of Molecular Evolution</i> , 1989, 29, 149-156.  | 0.8  | 84        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 145 | The Molecular Evolution of the Vertebrate Trypsinogens. <i>Journal of Molecular Evolution</i> , 1997, 45, 640-652.  | 0.8  | 84        |
| 146 | Proteomics Analysis of the Interactome of N-myc Downstream Regulated Gene 1 and Its Interactions with the Androgen Response Program in Prostate Cancer Cells. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 575-588.  | 2.5  | 83        |
| 147 | Systems Approaches to Biology and Disease Enable Translational Systems Medicine. <i>Genomics, Proteomics and Bioinformatics</i> , 2012, 10, 181-185.  | 3.0  | 83        |
| 148 | Integrated analysis of plasma and single immune cells uncovers metabolic changes in individuals with COVID-19. <i>Nature Biotechnology</i> , 2022, 40, 110-120.   | 9.4  | 81        |
| 149 | The effect of maternal SARS-CoV-2 infection timing on birth outcomes: a retrospective multicentre cohort study. <i>The Lancet Digital Health</i> , 2022, 4, e95-e104.   | 5.9  | 81        |
| 150 | Novel submicroscopic extrachromosomal elements containing amplified genes in human cells. <i>Nature</i> , 1987, 327, 434-437.   | 13.7 | 79        |
| 151 | Massively Parallel Signature Sequencing and Bioinformatics Analysis Identifies Up-Regulation of TGFBI and SOX4 in Human Glioblastoma. <i>PLoS ONE</i> , 2010, 5, e10210.  | 1.1  | 77        |
| 152 | Integrated Expression Profiling and CHIP-seq Analyses of the Growth Inhibition Response Program of the Androgen Receptor. <i>PLoS ONE</i> , 2009, 4, e6589.   | 1.1  | 77        |
| 153 | Quantitative Proteomics Analysis Integrated with Microarray Data Reveals That Extracellular Matrix Proteins, Catenins, and P53 Binding Protein 1 Are Important for Chemotherapy Response in Ovarian Cancers. <i>OMICS A Journal of Integrative Biology</i> , 2009, 13, 345-354. | 1.0  | 76        |
| 154 | Immunoglobulin Lambda Chain Structure: Two Genes, One Polypeptide Chain. <i>Nature</i> , 1968, 220, 764-767.  | 13.7 | 75        |
| 155 | Identifying Tightly Regulated and Variably Expressed Networks by Differential Rank Conservation (DIRAC). <i>PLoS Computational Biology</i> , 2010, 6, e1000792.   | 1.5  | 73        |
| 156 | Quantitative Serum Proteomics from Surface Plasmon Resonance Imaging. <i>Molecular and Cellular Proteomics</i> , 2008, 7, 2464-2474.  | 2.5  | 71        |
| 157 | Product of a transferred H $\alpha$ 2Ld gene acts as restriction element for LCMV-specific killer T cells. <i>Nature</i> , 1982, 297, 415-417.  | 13.7 | 70        |
| 158 | Analysis of Chromosome 1q42.2-43 in 152 Families with High Risk of Prostate Cancer. <i>American Journal of Human Genetics</i> , 1999, 64, 1087-1095.  | 2.6  | 70        |
| 159 | Big biomedical data as the key resource for discovery science. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2015, 22, 1126-1131.   | 2.2  | 70        |
| 160 | Genetic Evaluation of Suspected Cases of Transient HIV-1 Infection of Infants. <i>Science</i> , 1998, 280, 1073-1077.   | 6.0  | 68        |
| 161 | Multi-omic biomarker identification and validation for diagnosing warzone-related post-traumatic stress disorder. <i>Molecular Psychiatry</i> , 2020, 25, 3337-3349.  | 4.1  | 68        |
| 162 | Sequence analysis of mouse vomeronasal receptor gene clusters reveals common promoter motifs and a history of recent expansion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 291-296.                                     | 3.3  | 67        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 163 | Analysis of the DNA sequence and duplication history of human chromosome 15. <i>Nature</i> , 2006, 440, 671-675.  | 13.7 | 67        |
| 164 | Relationship Estimation from Whole-Genome Sequence Data. <i>PLoS Genetics</i> , 2014, 10, e1004144.   | 1.5  | 67        |
| 165 | Demystifying Disease, Democratizing Health Care. <i>Science Translational Medicine</i> , 2014, 6, 225ed5.   | 5.8  | 67        |
| 166 | Low Fidelity Mutants in the O-Helix of <i>Thermus aquaticus</i> DNA Polymerase I. <i>Journal of Biological Chemistry</i> , 1997, 272, 11228-11235.  | 1.6  | 66        |
| 167 | Initial Proteome Analysis of Model Microorganism <i>Haemophilus influenzae</i> Strain Rd KW20. <i>Journal of Bacteriology</i> , 2003, 185, 4593-4602.   | 1.0  | 66        |
| 168 | Landscape of the SOX2 proteinâ€“protein interactome. <i>Proteomics</i> , 2011, 11, 921-934.   | 1.3  | 66        |
| 169 | Integrating big data and actionable health coaching to optimize wellness. <i>BMC Medicine</i> , 2015, 13, 4.  | 2.3  | 66        |
| 170 | Testing the Hypothesis of a Recombinant Origin of Human Immunodeficiency Virus Type 1 Subtype E. <i>Journal of Virology</i> , 2000, 74, 10752-10765.  | 1.5  | 65        |
| 171 | Systems biology at the Institute for Systems Biology. <i>Briefings in Functional Genomics &amp; Proteomics</i> , 2008, 7, 239-248.  | 3.8  | 65        |
| 172 | Global analysis of H3K4me3 and H3K27me3 profiles in glioblastoma stem cells and identification of SLC17A7 as a bivalent tumor suppressor gene. <i>Oncotarget</i> , 2015, 6, 5369-5381.                                | 0.8  | 65        |
| 173 | Expression of complete transplantation antigens by mammalian cells transformed with truncated class I genes. <i>Nature</i> , 1983, 301, 388-394.  | 13.7 | 64        |
| 174 | Bridging the BMP and Wnt Pathways by PI3 Kinase/Akt and 14-3-3?. <i>Cell Cycle</i> , 2005, 4, 218-219.  | 1.3  | 64        |
| 175 | Analysis of chemotherapy response programs in ovarian cancers by the next-generation sequencing technologies. <i>Gynecologic Oncology</i> , 2010, 117, 159-169.   | 0.6  | 64        |
| 176 | Chromosomal Haplotypes by Genetic Phasing of Human Families. <i>American Journal of Human Genetics</i> , 2011, 89, 382-397.   | 2.6  | 63        |
| 177 | Expression of Î“Ak class II genes in mouse L cells after DNA-mediated gene transfer. <i>Nature</i> , 1983, 305, 440-443.  | 13.7 | 62        |
| 178 | Extracellular vesicle <scp>RNA</scp>s reflect placenta dysfunction and are a biomarker source for preterm labour. <i>Journal of Cellular and Molecular Medicine</i> , 2018, 22, 2760-2773.                            | 1.6  | 62        |
| 179 | Cell type-specific genes show striking and distinct patterns of spatial expression in the mouse brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 3095-3100. | 3.3  | 61        |
| 180 | Genomic scan of 254 hereditary prostate cancer families. <i>Prostate</i> , 2003, 57, 309-319.   | 1.2  | 59        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 181 | INDUCTION OF RABBIT ANTIBODY WITH MOLECULAR UNIFORMITY AFTER IMMUNIZATION WITH GROUP C STREPTOCOCCI. <i>Journal of Experimental Medicine</i> , 1970, 131, 207-221.  | 4.2 | 58        |
| 182 | Genetic Mapping at 3-Kilobase Resolution Reveals Inositol 1,4,5-Triphosphate Receptor 3 as a Risk Factor for Type 1 Diabetes in Sweden. <i>American Journal of Human Genetics</i> , 2006, 79, 614-627.  | 2.6 | 58        |
| 183 | A Personal View of Molecular Technology and How It Has Changed Biology. <i>Journal of Proteome Research</i> , 2002, 1, 399-409.   | 1.8 | 57        |
| 184 | New and improved proteomics technologies for understanding complex biological systems: Addressing a grand challenge in the life sciences. <i>Proteomics</i> , 2012, 12, 2773-2783.  | 1.3 | 57        |
| 185 | Whole-Genome Sequencing of the World's Oldest People. <i>PLoS ONE</i> , 2014, 9, e112430.   | 1.1 | 57        |
| 186 | Role of Myelin Basic Protein in the Formation of Central Nervous System Myelin. <i>Annals of the New York Academy of Sciences</i> , 1990, 605, 280-285.   | 1.8 | 56        |
| 187 | Multi-Omic Biological Age Estimation and Its Correlation With Wellness and Disease Phenotypes: A Longitudinal Study of 3,558 Individuals. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2019, 74, S52-S60. | 1.7 | 56        |
| 188 | Genomic perspective on the photobiology of Halobacterium species NRC-1, a phototrophic, phototactic, and UV-tolerant haloarchaeon. <i>Photosynthesis Research</i> , 2001, 70, 3-17.   | 1.6 | 54        |
| 189 | Systems Biology and the Discovery of Diagnostic Biomarkers. <i>Disease Markers</i> , 2010, 28, 199-207.   | 0.6 | 54        |
| 190 | Nucleotide sequence analysis of 95 kb near the 3' end of the murine T-cell receptor $\beta$ chain locus: Strategy and methodology. <i>Genomics</i> , 1992, 13, 1198-1208.   | 1.3 | 53        |
| 191 | Identification of clusters of biallelic polymorphic sequence-tagged sites (pSTSs) that generate highly informative and automatable markers for genetic linkage mapping. <i>Genomics</i> , 1992, 12, 377-387.                                      | 1.3 | 53        |
| 192 | Genomic and molecular characterization of preterm birth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5819-5827.   | 3.3 | 53        |
| 193 | Proteomic Analysis of an Extreme Halophilic Archaeon, Halobacterium sp. NRC-1. <i>Molecular and Cellular Proteomics</i> , 2003, 2, 506-524.   | 2.5 | 52        |
| 194 | A DNA methylation clock associated with age-related illnesses and mortality is accelerated in men with combat PTSD. <i>Molecular Psychiatry</i> , 2021, 26, 4999-5009.  | 4.1 | 52        |
| 195 | Biochemical identification of the Qa-1 alloantigen. <i>Immunogenetics</i> , 1980, 11-11, 309-314.   | 1.2 | 51        |
| 196 | Molecular Cloning and Characterization of a Novel Regulator of G-protein Signaling from Mouse Hematopoietic Stem Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 915-923.  | 1.6 | 51        |
| 197 | Analysis of the 1.1-Mb Human $\beta$ T-Cell Receptor Locus with Bacterial Artificial Chromosome Clones. <i>Genome Research</i> , 1997, 7, 330-338.  | 2.4 | 50        |
| 198 | Activation of the c-Jun N-terminal Kinase/Stress-activated Protein Kinase Pathway by Overexpression of Caspase-8 and Its Homologs. <i>Journal of Biological Chemistry</i> , 1999, 274, 19211-19219.   | 1.6 | 50        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 199 | Targeting Stem Cells-Clinical Implications for Cancer Therapy. <i>Current Stem Cell Research and Therapy</i> , 2009, 4, 147-153.  | 0.6  | 49        |
| 200 | Peptide map analyses of murine Ia antigens of the Iâ€‘E subregion using HPLC. <i>Nature</i> , 1979, 277, 663-665.   | 13.7 | 48        |
| 201 | A novel mutation in myelin-deficient mice results in unstable myelin basic protein gene transcripts. <i>Neuron</i> , 1988, 1, 221-225.  | 3.8  | 48        |
| 202 | Analysis of a new class I gene mapping to theHmt region of the mouse. <i>Immunogenetics</i> , 1989, 30, 273-283.  | 1.2  | 48        |
| 203 | Pulsed field gel electrophoresis techniques for separating 1- to 50-kilobase DNA fragments. <i>Analytical Biochemistry</i> , 1989, 177, 282-286.  | 1.1  | 48        |
| 204 | An Expressed-Sequence-Tag Database of the Human Prostate: Sequence Analysis of 1168 cDNA Clones. <i>Genomics</i> , 1998, 47, 12-25.   | 1.3  | 48        |
| 205 | Cloning, Characterization, and the Complete 56.8-Kilobase DNA Sequence of the Human NOTCH4 Gene. <i>Genomics</i> , 1998, 51, 45-58.   | 1.3  | 48        |
| 206 | Principal network analysis: identification of subnetworks representing major dynamics using gene expression data. <i>Bioinformatics</i> , 2011, 27, 391-398.  | 1.8  | 48        |
| 207 | Genetic Predisposition Impacts Clinical Changes in a Lifestyle Coaching Program. <i>Scientific Reports</i> , 2019, 9, 6805.   | 1.6  | 48        |
| 208 | Identification of differentially expressed prostate genes: Increased expression of transcription factor ETS-2 in prostate cancer. , 1997, 30, 145-153.  |      | 47        |
| 209 | Increased Expression of SIM2-s Protein Is a Novel Marker of Aggressive Prostate Cancer. <i>Clinical Cancer Research</i> , 2007, 13, 892-897.  | 3.2  | 47        |
| 210 | Quantitative Liver-Specific Protein Fingerprint in Blood: A Signature for Hepatotoxicity. <i>Theranostics</i> , 2014, 4, 215-228.   | 4.6  | 47        |
| 211 | Longitudinal analysis reveals transition barriers between dominant ecological states in the gut microbiome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13839-13845.      | 3.3  | 47        |
| 212 | Sequence to array: Probing the genome's secrets. <i>Nature Biotechnology</i> , 1996, 14, 1649-1649.   | 9.4  | 46        |
| 213 | Genetic Linkage Analysis of Prostate Cancer Families to Xq27â€‘28. <i>Human Heredity</i> , 2001, 51, 107-113.   | 0.4  | 46        |
| 214 | Further localization of a multiple sclerosis susceptibility gene on chromosome 7q using a new T cell receptor beta-chain DNA polymorphism. <i>Journal of Neuroimmunology</i> , 1991, 32, 231-240.                                 | 1.1  | 45        |
| 215 | Comprehensive de novo structure prediction in a systems-biology context for the archaea <i>Halobacterium</i> sp. NRC-1. <i>Genome Biology</i> , 2004, 5, R52.   | 13.9 | 45        |
| 216 | Molecular evidence of stress-induced acute heart injury in a mouse model simulating posttraumatic stress disorder. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3188-3193. | 3.3  | 45        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 217 | Systems Approach to Neurodegenerative Disease Biomarker Discovery. Annual Review of Pharmacology and Toxicology, 2014, 54, 457-481.  | 4.2  | 45        |
| 218 | Microarray Based Screening of Peptide Nano Probes for HER2 Positive Tumor. Analytical Chemistry, 2015, 87, 8367-8372.  | 3.2  | 45        |
| 219 | Genome-Scale Transcriptional Regulatory Network Models of Psychiatric and Neurodegenerative Disorders. Cell Systems, 2019, 8, 122-135.e7.  | 2.9  | 45        |
| 220 | Characterization of the Japanese pufferfish ( Takifugu rubripes ) T-cell receptor $\hat{\alpha}$ locus reveals a unique genomic organization. Immunogenetics, 2001, 53, 31-42.                             | 1.2  | 44        |
| 221 | Optimal Scaling of Digital Transcriptomes. PLoS ONE, 2013, 8, e77885.  | 1.1  | 44        |
| 222 | T cell receptor DJ but not VDJ rearrangement within a recombination substrate introduced into a pre-B cell line. International Immunology, 1989, 1, 66-74.   | 1.8  | 43        |
| 223 | Analysis and sorting of prostate cancer cell types by flow cytometry. , 1999, 40, 192-199.   |      | 43        |
| 224 | Development of an automated procedure for fluorescent DNA sequencing. Genomics, 1990, 6, 626-634.  | 1.3  | 42        |
| 225 | Organization of the V Gene Segments in Mouse T-Cell Antigen Receptor $\hat{\alpha}$ / $\hat{\beta}$ Locus. Genomics, 1994, 20, 419-428.  | 1.3  | 42        |
| 226 | Nucleotide Sequence Analysis of 77.7 kb of the Human $\hat{V}\hat{\alpha}2$ T-Cell Receptor Gene Locus: Direct Primer-Walking Using Cosmid Template DNAs. Genomics, 1994, 20, 149-168.                     | 1.3  | 41        |
| 227 | Tackling the Microbiome. Science, 2012, 336, 1209-1209.  | 6.0  | 41        |
| 228 | Opening a SWATH Window on Posttranslational Modifications: Automated Pursuit of Modified Peptides. Molecular and Cellular Proteomics, 2016, 15, 1151-1163.   | 2.5  | 41        |
| 229 | A systems approach to clinical oncology uses deep phenotyping to deliver personalized care. Nature Reviews Clinical Oncology, 2020, 17, 183-194.   | 12.5 | 41        |
| 230 | Systems biology and the discovery of diagnostic biomarkers. Disease Markers, 2010, 28, 199-207.  | 0.6  | 41        |
| 231 | Rapid Screening of Peptide Probes through <i>In Situ</i> Single-Bead Sequencing Microarray. Analytical Chemistry, 2014, 86, 11854-11859.   | 3.2  | 40        |
| 232 | New paradigms for understanding and step changes in treating active and chronic, persistent apicomplexan infections. Scientific Reports, 2016, 6, 29179.   | 1.6  | 40        |
| 233 | Cytotoxic T lymphocytes recognize determinants on the BALB/c-H-2Ld molecule controlled by $\hat{\alpha}1$ and $\hat{\alpha}2$ but not $\hat{\alpha}3$ external domains. Immunogenetics, 1984, 20, 141-154. | 1.2  | 39        |
| 234 | Differences in t cell receptor restriction fragment length polymorphisms in patients with rheumatoid arthritis. Arthritis and Rheumatism, 1992, 35, 465-471.   | 6.7  | 39        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 235 | SPR Imaging for High Throughput, Label-Free Interaction Analysis. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2009, 12, 741-751.   | 0.6 | 39        |
| 236 | Epigenetic Regulation of Wnt Pathway Antagonists in Human Glioblastoma Multiforme. <i>Genes and Cancer</i> , 2010, 1, 81-90.  | 0.6 | 39        |
| 237 | Origin of the <i>PSEN1</i> E280A mutation causing early-onset Alzheimer's disease. <i>Alzheimer's and Dementia</i> , 2014, 10, S277-S283.e10.   | 0.4 | 39        |
| 238 | Long-range multilocus haplotype phasing of the MHC. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6964-6969.  | 3.3 | 38        |
| 239 | TGF $\beta$ -Responsive HMOX1 Expression Is Associated with Stemness and Invasion in Glioblastoma Multiforme. <i>Stem Cells</i> , 2016, 34, 2276-2289.  | 1.4 | 38        |
| 240 | Analysis of Acute Myelogenous Leukemia: Preparation of Samples for Genomic and Proteomic Analyses. <i>Journal of Hematotherapy and Stem Cell Research</i> , 2002, 11, 469-481.  | 1.8 | 37        |
| 241 | Automated Validation of Results and Removal of Fragment Ion Interferences in Targeted Analysis of Data-independent Acquisition Mass Spectrometry (MS) using SWATHProphet. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1411-1418. | 2.5 | 37        |
| 242 | High resolution time-course mapping of early transcriptomic, molecular and cellular phenotypes in Huntington's disease CAG knock-in mice across multiple genetic backgrounds. <i>Human Molecular Genetics</i> , 2017, 26, 913-922.        | 1.4 | 37        |
| 243 | A Cell-Surface Membrane Protein Signature for Glioblastoma. <i>Cell Systems</i> , 2017, 4, 516-529.e7.  | 2.9 | 37        |
| 244 | Evolution of a Simian Immunodeficiency Virus Pathogen. <i>Journal of Virology</i> , 1998, 72, 405-414.  | 1.5 | 37        |
| 245 | P4 Medicine Needs P4 Education. <i>Current Pharmaceutical Design</i> , 2014, 20, 6071-6072.   | 0.9 | 37        |
| 246 | A Third Approach to Gene Prediction Suggests Thousands of Additional Human Transcribed Regions. <i>PLoS Computational Biology</i> , 2006, 2, e18.   | 1.5 | 36        |
| 247 | Human and Mouse T-Cell Receptor Loci: Genomics, Evolution, Diversity, and Serendipity. <i>Annals of the New York Academy of Sciences</i> , 1995, 758, 390-412.  | 1.8 | 35        |
| 248 | KLK31P is a novel androgen regulated and transcribed pseudogene of kallikreins that is expressed at lower levels in prostate cancer cells than in normal prostate cells. <i>Prostate</i> , 2006, 66, 936-944.                             | 1.2 | 35        |
| 249 | Evolutionary etiology of high-grade astrocytomas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17933-17938.  | 3.3 | 35        |
| 250 | Organization of the Murine T-Cell Receptor $\beta$ Locus. <i>Genomics</i> , 1993, 17, 566-574.  | 1.3 | 34        |
| 251 | Down-Regulation of Shadoo in Prion Infections Traces a Pre-Clinical Event Inversely Related to PrPSc Accumulation. <i>PLoS Pathogens</i> , 2011, 7, e1002391.   | 2.1 | 34        |
| 252 | [16] An automated DNA synthesizer employing deoxynucleoside 3'-phosphoramidites. <i>Methods in Enzymology</i> , 1987, 154, 314-326.   | 0.4 | 32        |

| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 253 | The building blocks of successful translation of proteomics to the clinic. <i>Current Opinion in Biotechnology</i> , 2018, 51, 123-129.  | 3.3  | 32        |
| 254 | A novel 6:10 chromosomal translocation in the murine plasmacytoma NS-1. <i>Nature</i> , 1984, 307, 473-476.  | 13.7 | 31        |
| 255 | Prostate Cancer Expression Profiling by cDNA Sequencing Analysis. <i>Genomics</i> , 1999, 59, 178-186.   | 1.3  | 31        |
| 256 | INTELLECTUAL PROPERTY: Publication Rights in the Era of Open Data Release Policies. <i>Science</i> , 2000, 289, 1881-1881.   | 6.0  | 31        |
| 257 | Interchromosomal Segmental Duplications Explain the Unusual Structure of PRSS3, the Gene for an Inhibitor-Resistant Trypsinogen. <i>Molecular Biology and Evolution</i> , 2005, 22, 1712-1720.   | 3.5  | 31        |
| 258 | Nanomedicine Targets Cancer. <i>Scientific American</i> , 2009, 300, 44-51.  | 1.0  | 31        |
| 259 | Mapping genomic organization by field inversion and two-dimensional gel electrophoresis: application to the murine T-cell receptor $\beta$ gene family. <i>Nucleic Acids Research</i> , 1988, 16, 3863-3875.   | 6.5  | 30        |
| 260 | <sc>SRM</sc> targeted proteomics in search for biomarkers of <sc>HCV</sc>-induced progression of fibrosis to cirrhosis in <sc>HALT</sc>-<sc>C</sc> patients. <i>Proteomics</i> , 2012, 12, 1244-1252.  | 1.3  | 30        |
| 261 | A Gain-of-Function Mutation in TRPV3 Causes Focal Palmoplantar Keratoderma in a Chinese Family. <i>Journal of Investigative Dermatology</i> , 2015, 135, 907-909.  | 0.3  | 30        |
| 262 | Amino terminal amino acid sequence of the major polypeptide subunit of Torpedocalifornica acetylcholine receptor. <i>Biochemical and Biophysical Research Communications</i> , 1979, 91, 164-169.  | 1.0  | 29        |
| 263 | Quod erat faciendum: sequence analysis of the H2-D and H2-Q regions of 129/SvJ mice. <i>Immunogenetics</i> , 2002, 54, 479-489.  | 1.2  | 29        |
| 264 | Epidermal Ia molecules from the I-A and I-E subregions of the mouse H-2 complex. <i>Immunogenetics</i> , 1978, 6, 125-135.   | 1.2  | 28        |
| 265 | Editorial: Systems biology and personalized medicine – the future is now. <i>Biotechnology Journal</i> , 2012, 7, 938-939.   | 1.8  | 28        |
| 266 | Identification of Organ-Enriched Protein Biomarkers of Acute Liver Injury by Targeted Quantitative Proteomics of Blood in Acetaminophen- and Carbon-Tetrachloride-Treated Mouse Models and Acetaminophen Overdose Patients. <i>Journal of Proteome Research</i> , 2016, 15, 3724-3740. | 1.8  | 28        |
| 267 | Atlas of Transcription Factor Binding Sites from ENCODE DNase Hypersensitivity Data across 27 Tissue Types. <i>Cell Reports</i> , 2020, 32, 108029.  | 2.9  | 28        |
| 268 | Immunology in the post-genomic era. <i>Nature Immunology</i> , 2001, 2, 373-375.   | 7.0  | 27        |
| 269 | From Phage lambda to human cancer: endogenous molecular-cellular network hypothesis. <i>Quantitative Biology</i> , 2013, 1, 32-49.   | 0.3  | 27        |
| 270 | Population-specific genetic modification of Huntington's disease in Venezuela. <i>PLoS Genetics</i> , 2018, 14, e1007274.  | 1.5  | 27        |



| #   | ARTICLE  | IF   | CITATIONS |
|-----|--|------|-----------|
| 271 | Structure of Ia antigens from the rat. Mouse alloantisera demonstrate at least two distinct molecular species. <i>European Journal of Immunology</i> , 1980, 10, 145-151.  | 1.6  | 26        |
| 272 | Fluorescence-Based Sequencing Directly from Bacterial and P1-Derived Artificial Chromosomes. <i>BioTechniques</i> , 1997, 23, 978-982.   | 0.8  | 26        |
| 273 | Human prostate epithelial cell-type cDNA libraries and prostate expression patterns. <i>Prostate</i> , 2002, 50, 92-103.   | 1.2  | 26        |
| 274 | A Systems Approach to Rheumatoid Arthritis. <i>PLoS ONE</i> , 2012, 7, e51508.   | 1.1  | 26        |
| 275 | Realistic artificial DNA sequences as negative controls for computational genomics. <i>Nucleic Acids Research</i> , 2014, 42, e99-e99.   | 6.5  | 26        |
| 276 | Partial amino acid sequences of marine Ia antigens of the I-ECd subregion. <i>Immunogenetics</i> , 1978, 6, 137-147.   | 1.2  | 25        |
| 277 | Partial N-terminal amino acid sequence analyses and comparative tryptic peptide maps of murine Ia molecules encoded by the I-A subregion. <i>European Journal of Immunology</i> , 1979, 9, 955-963.                              | 1.6  | 25        |
| 278 | A physical map of human chromosome 14. <i>Nature</i> , 2001, 409, 947-948.   | 13.7 | 25        |
| 279 | iNetModels 2.0: an interactive visualization and database of multi-omics data. <i>Nucleic Acids Research</i> , 2021, 49, W271-W276.  | 6.5  | 25        |
| 280 | Restoration of Brain Stem Auditory-Evoked Potentials by Gene Transfer in Shiverer Mice. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 1994, 103, 449-456.   | 0.6  | 24        |
| 281 | FVB/N (H2 q) mouse is resistant to arthritis induction and exhibits a genomic deletion of T-cell receptor V beta gene segments. <i>Immunogenetics</i> , 1999, 49, 851-859.   | 1.2  | 24        |
| 282 | Genomic Analysis of the Olfactory Receptor Region of the Mouse and Human T-Cell Receptor alpha/delta Loci. <i>Genome Research</i> , 2002, 12, 81-87.   | 2.4  | 24        |
| 283 | An automated Teflon microfluidic peptide synthesizer. <i>Lab on A Chip</i> , 2013, 13, 3347.   | 3.1  | 24        |
| 284 | Protein-Centric N-Glycoproteomics Analysis of Membrane and Plasma Membrane Proteins. <i>Journal of Proteome Research</i> , 2014, 13, 2705-2714.  | 1.8  | 24        |
| 285 | Expression of mouse Tla region class I genes in tissue enriched for ?? cells. <i>Immunogenetics</i> , 1992, 36, 377-88.  | 1.2  | 23        |
| 286 | A highly conserved apoptotic suppressor gene is located near the chicken T-cell receptor alpha chain constant region. <i>Immunogenetics</i> , 1997, 46, 376-382.   | 1.2  | 23        |
| 287 | Identification of a prostate cancer susceptibility locus on chromosome 7q11 in Jewish families. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1939-1944.                   | 3.3  | 23        |
| 288 | An Epigenetic Biomarker Panel for Glioblastoma Multiforme Personalized Medicine through DNA Methylation Analysis of Human Embryonic Stem Cell-like Signature. <i>OMICS A Journal of Integrative Biology</i> , 2014, 18, 310-323. | 1.0  | 23        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 289 | Endogenous molecular-cellular hierarchical modeling of prostate carcinogenesis uncovers robust structure. <i>Progress in Biophysics and Molecular Biology</i> , 2015, 117, 30-42.   | 1.4  | 23        |
| 290 | LIGHT CHAIN STRUCTURE AND THEORIES OF ANTIBODY DIVERSITY *. <i>Annals of the New York Academy of Sciences</i> , 1971, 190, 26-36.   | 1.8  | 22        |
| 291 | Gaps in the Human Genome Project. <i>Nature</i> , 1999, 401, 843-845.   | 13.7 | 22        |
| 292 | Modeling the Feasibility of Whole Genome Shotgun Sequencing Using a Pairwise End Strategy. <i>Genomics</i> , 2000, 68, 237-246.   | 1.3  | 22        |
| 293 | Systems biology and cancer stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 97-110.  | 1.6  | 22        |
| 294 | Sequence-Level Analysis of the Major European Huntington Disease Haplotype. <i>American Journal of Human Genetics</i> , 2015, 97, 435-444.  | 2.6  | 22        |
| 295 | Mechanistic inferences on metabolic dysfunction in posttraumatic stress disorder from an integrated model and multiomic analysis: role of glucocorticoid receptor sensitivity. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2019, 317, E879-E898. | 1.8  | 22        |
| 296 | Multiomic blood correlates of genetic risk identify presymptomatic disease alterations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21813-21820.  | 3.3  | 22        |
| 297 | Epigenetic biotypes of post-traumatic stress disorder in war-zone exposed veteran and active duty males. <i>Molecular Psychiatry</i> , 2021, 26, 4300-4314.   | 4.1  | 22        |
| 298 | Large-scale DNA sequencing. <i>Current Opinion in Biotechnology</i> , 1991, 2, 92-101.  | 3.3  | 21        |
| 299 | An Experimentally Derived Data Set Constructed for Testing Large-Scale DNA Sequence Assembly Algorithms. <i>Genomics</i> , 1993, 15, 673-676.   | 1.3  | 21        |
| 300 | Structural analysis of the mouse T-cell receptor Tcra V2 subfamily. <i>Immunogenetics</i> , 1994, 40, 116-22.   | 1.2  | 21        |
| 301 | Proteomics cataloging analysis of human expressed prostatic secretions reveals rich source of biomarker candidates. <i>Proteomics - Clinical Applications</i> , 2008, 2, 543-555.   | 0.8  | 21        |
| 302 | Deep phenotyping during pregnancy for predictive and preventive medicine. <i>Science Translational Medicine</i> , 2020, 12, .   | 5.8  | 21        |
| 303 | Heterogeneity in statin responses explained by variation in the human gut microbiome. <i>Med</i> , 2022, 3, 388-405.e6.   | 2.2  | 21        |
| 304 | Immunochemical studies of mouse monoclonal antibodies to dextran B1355Sâ€™II. Combining site specificity, sequence, idiotype and affinity. <i>Molecular Immunology</i> , 1986, 23, 413-424.   | 1.0  | 20        |
| 305 | DNA sequence of a class I pseudogene from theTla region of the murine MHC: Recombination at a B2 Alu repetitive sequence. <i>Journal of Molecular Evolution</i> , 1989, 28, 306-312.  | 0.8  | 20        |
| 306 | Sequence and expression of a novel human T-cell receptor ?-chain variable gene segment subfamily. <i>Immunogenetics</i> , 1990, 32, 406-12.   | 1.2  | 19        |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 307 | The geometry of clinical labs and wellness states from deeply phenotyped humans. <i>Nature Communications</i> , 2021, 12, 3578.   | 5.8  | 19        |
| 308 | Baseline Gut Metagenomic Functional Gene Signature Associated with Variable Weight Loss Responses following a Healthy Lifestyle Intervention in Humans. <i>MSystems</i> , 2021, 6, e0096421.  | 1.7  | 19        |
| 309 | Negative selection: a method for obtaining low-abundance cDNAs using high-density cDNA clone arrays. <i>Genetic Analysis, Techniques and Applications</i> , 1999, 15, 209-215.  | 1.5  | 18        |
| 310 | Characterization, Chromosomal Localization, and the Complete 30-kb DNA Sequence of the Human Jagged2 (JAG2) Gene. <i>Genomics</i> , 2000, 63, 133-138.  | 1.3  | 18        |
| 311 | Rapid Depletion of Peripheral Antigen-Specific T Cells in TCR-Transgenic Mice After Oral Administration of Myelin Basic Protein. <i>Journal of Immunology</i> , 2001, 166, 5773-5781.   | 0.4  | 18        |
| 312 | The Prion Disease Database: a comprehensive transcriptome resource for systems biology research in prion diseases. <i>Database: the Journal of Biological Databases and Curation</i> , 2009, 2009, bap011.  | 1.4  | 18        |
| 313 | Identification of copy number variants in whole-genome data using Reference Coverage Profiles. <i>Frontiers in Genetics</i> , 2015, 6, 45.  | 1.1  | 18        |
| 314 | N-Glycoproteome of E14.Tg2a Mouse Embryonic Stem Cells. <i>PLoS ONE</i> , 2013, 8, e55722.  | 1.1  | 18        |
| 315 | Systems Biology Experimental Design - Considerations for Building Predictive Gene Regulatory Network Models for Prokaryotic Systems. <i>Current Genomics</i> , 2004, 5, 527-544.  | 0.7  | 18        |
| 316 | Finding the T-cell antigen receptor: Past attempts and future promise. <i>Cell</i> , 1983, 34, 327-329.   | 13.5 | 17        |
| 317 | Multiplex genotype determination at a DNA sequence polymorphism cluster in the human immunoglobulin heavy-chain region. <i>Genomics</i> , 1995, 26, 199-206.  | 1.3  | 17        |
| 318 | Molecular profiling of stem cells. <i>Clinica Chimica Acta</i> , 2007, 378, 24-32.  | 0.5  | 17        |
| 319 | Glycocapture-Assisted Global Quantitative Proteomics (gagQP) Reveals Multiorgan Responses in Serum Toxicoproteome. <i>Journal of Proteome Research</i> , 2013, 12, 2034-2044.   | 1.8  | 17        |
| 320 | Beyond cancer genes: colorectal cancer as robust intrinsic states formed by molecular interactions. <i>Open Biology</i> , 2017, 7, 170169.  | 1.5  | 17        |
| 321 | Molecular characterization of meiotic recombination within the major histocompatibility complex of the mouse: Mapping of crossover sites within the region. <i>Biochemical Genetics</i> , 1987, 25, 513-526.  | 0.8  | 16        |
| 322 | Organization, Sequence, and Function of 34.5 kb of Genomic DNA Encompassing Several Murine T-Cell Receptor $\beta/\delta$ Variable Gene Segments. <i>Genomics</i> , 1994, 20, 258-266.  | 1.3  | 16        |
| 323 | WDR19 Expression is Increased in Prostate Cancer Compared with Normal Cells, but Low-Intensity Expression in Cancers is Associated with Shorter Time to Biochemical Failures and Local Recurrence. <i>Clinical Cancer Research</i> , 2008, 14, 1397-1406. | 3.2  | 16        |
| 324 | Multi-study Integration of Brain Cancer Transcriptomes Reveals Organ-Level Molecular Signatures. <i>PLoS Computational Biology</i> , 2013, 9, e1003148.   | 1.5  | 16        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 325 | Distinct Profiles of Cell-Free MicroRNAs in Plasma of Veterans with Post-Traumatic Stress Disorder. <i>Journal of Clinical Medicine</i> , 2019, 8, 963.   | 1.0 | 16        |
| 326 | Human T-cell receptor V $\alpha$ gene polymorphism. <i>Human Immunology</i> , 1991, 32, 277-283.  | 1.2 | 15        |
| 327 | Serological and biochemical characterization of rat (RT1) class II molecules with restricted mouse anti-Ia sera. <i>Immunogenetics</i> , 1981, 13, 93-107.  | 1.2 | 14        |
| 328 | Substitution Model of Sequence Evolution for the Human Immunodeficiency Virus Type 1 Subtype B gp120 Gene over the C2-V5 Region. <i>Journal of Molecular Evolution</i> , 2001, 53, 55-62.                 | 0.8 | 14        |
| 329 | Suggestive genetic linkage to chromosome 11p11.2-q12.2 in hereditary prostate cancer families with primary kidney cancer. <i>Prostate</i> , 2007, 67, 732-742.  | 1.2 | 14        |
| 330 | Genomic architecture of inflammatory bowel disease in five families with multiple affected individuals. <i>Human Genome Variation</i> , 2016, 3, 15060.   | 0.4 | 14        |
| 331 | Measurement of Organ-Specific and Acute-Phase Blood Protein Levels in Early Lyme Disease. <i>Journal of Proteome Research</i> , 2020, 19, 346-359.  | 1.8 | 14        |
| 332 | Automatable screening of yeast artificial-chromosome libraries based on the oligonucleotide-ligation assay. <i>Genomics</i> , 1992, 13, 935-941.  | 1.3 | 13        |
| 333 | Sequence Similarities of Myelin Basic Protein Promoters from Mouse and Shark: Implications for the Control of Gene Expression in Myelinating Cells. <i>Journal of Neurochemistry</i> , 1993, 60, 513-521. | 2.1 | 13        |
| 334 | Frequency and Polymorphism of Simple Sequence Repeats in a Contiguous 685-kb DNA Sequence Containing the Human T-Cell Receptor $\beta$ -Chain Gene Complex. <i>Genomics</i> , 1995, 29, 760-765.          | 1.3 | 13        |
| 335 | An analysis of the dynamic range and linearity of an infrared DNA sequencer. <i>Electrophoresis</i> , 1996, 17, 652-658.  | 1.3 | 13        |
| 336 | Isolation and characterization of human and mouse WDR19, a novel WD-repeat protein exhibiting androgen-regulated expression in prostate epithelium. <i>Genomics</i> , 2003, 82, 331-342.                  | 1.3 | 13        |
| 337 | Blood Is a Window into Health and Disease. <i>Clinical Chemistry</i> , 2019, 65, 1204-1206.   | 1.5 | 13        |
| 338 | Cloning and identification of the H-2D p gene. <i>Immunogenetics</i> , 1984, 19, 195-204.   | 1.2 | 12        |
| 339 | [10] Automated fluorescent DNA sequencing of polymerase chain reaction products. <i>Methods in Enzymology</i> , 1993, 218, 104-121.   | 0.4 | 12        |
| 340 | Untargeted longitudinal analysis of a wellness cohort identifies markers of metastatic cancer years prior to diagnosis. <i>Scientific Reports</i> , 2020, 10, 16275.                                      | 1.6 | 12        |
| 341 | Manifestations of Alzheimer's disease genetic risk in the blood are evident in a multiomic analysis in healthy adults aged 18 to 90. <i>Scientific Reports</i> , 2022, 12, 6117.                          | 1.6 | 12        |
| 342 | Microsequence analysis of Ia antigens from three strains of rats. <i>European Journal of Immunology</i> , 1980, 10, 140-145.  | 1.6 | 11        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 343 | L3T4 but not LFA-1 participates in antigen presentation by Ak-positive L-Cell transformants. Immunogenetics, 1985, 22, 247-256.  | 1.2 | 11        |
| 344 | Transcripts of Tla genes. Immunogenetics, 1987, 25, 411-415.   | 1.2 | 11        |
| 345 | DMSO resolves certain compressions and signal dropouts in fluorescent dye labeled primer-based DNA sequencing reactions. DNA Sequence, 1995, 5, 131-140.                                 | 0.7 | 11        |
| 346 | Bioprocessing of Human Glioblastoma Brain Cancer Tissue. Tissue Engineering - Part A, 2010, 16, 1169-1177.   | 1.6 | 11        |
| 347 | Utilization of machine learning for identifying symptom severity military-related PTSD subtypes and their biological correlates. Translational Psychiatry, 2021, 11, 227.                | 2.4 | 11        |
| 348 | Relaxation intervals alter the mobility of large DNA molecules in pulsed field gel electrophoresis. Nucleic Acids Research, 1988, 16, 10376-10376.                                       | 6.5 | 10        |
| 349 | Analysis of D2 d : a D-region class I gene. Immunogenetics, 1989, 29, 359-365.   | 1.2 | 10        |
| 350 | Model genomes: The benefits of analysing homologous human and mouse sequences. Trends in Biotechnology, 1992, 10, 19-22.   | 4.9 | 10        |
| 351 | Polymorphism detection and sequence analysis of human T-cell receptor V $\gamma$ -chain-encoding gene segments. Immunogenetics, 1994, 39, 138-45.  | 1.2 | 10        |
| 352 | The P4 Health Spectrum â€” A Predictive, Preventive, Personalized and Participatory Continuum for Promoting Healthspan. Progress in Preventive Medicine (New York, N Y), 2017, 2, e0002. | 0.7 | 10        |
| 353 | Effect of Combat Exposure and Posttraumatic Stress Disorder on Telomere Length and Amygdala Volume. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 678-687.    | 1.1 | 10        |
| 354 | Lims and the Human Genome Project. Bio/technology, 1991, 9, 1344-1345.   | 1.9 | 9         |
| 355 | Detection of a Large RIII-Derived Chromosomal Segment on Chromosome 10 in the H-2 Congenic Strain B10.RIII(71NS)/Sn. Genomics, 1996, 31, 266-269.  | 1.3 | 9         |
| 356 | High-Throughput cDNA Screening Utilizing a Low Order Neural Network Filter. BioTechniques, 1996, 21, 1110-1114.  | 0.8 | 8         |
| 357 | Evolution and Selection of Primate T Cell Antigen Receptor BV8 Gene Subfamily. Molecular Phylogenetics and Evolution, 1997, 8, 51-64.  | 1.2 | 8         |
| 358 | Whole genome sequence and comparative analysis of Borrelia burgdorferi MM1. PLoS ONE, 2018, 13, e0198135.  | 1.1 | 8         |
| 359 | Personalized, Precision, and N-of-One Medicine: A Clarification of Terminology and Concepts. Perspectives in Biology and Medicine, 2019, 62, 617-639.                                    | 0.3 | 8         |
| 360 | A Systems Approach to Medicine Will Transform Healthcare. , 2008, , 337-366.   |     | 8         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 361 | Gene regulatory networks and embryonic specification. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5951-5952.                                    | 3.3 | 7         |
| 362 | Efficient region-based test strategy uncovers genetic risk factors for functional outcome in bipolar disorder. European Neuropsychopharmacology, 2019, 29, 156-170.                             | 0.3 | 7         |
| 363 | Core transcriptional regulatory circuits in prion diseases. Molecular Brain, 2020, 13, 10.  | 1.3 | 7         |
| 364 | Efficiency, Robustness, and Stochasticity of Gene Regulatory Networks in Systems Biology: A Switch as a Working Example. , 2007, , 336-371.   |     | 7         |
| 365 | Tryptic peptide map analyses of mouse transplantation antigens. Immunogenetics, 1981, 12, 21-32.  | 1.2 | 6         |
| 366 | Nucleotide sequence of the BALB/c H-2T region gene, T3 d. Immunogenetics, 1992, 36, 326-32.   | 1.2 | 6         |
| 367 | Viva Europa, a Land of Excellence in Research and Innovation for Health and Wellbeing. Progress in Preventive Medicine (New York, N Y ), 2017, 2, e006.   | 0.7 | 6         |
| 368 | Lessons Learned as President of the Institute for Systems Biology (2000-2018). Genomics, Proteomics and Bioinformatics, 2018, 16, 1-9.  | 3.0 | 6         |
| 369 | A Blueprint for Systems Biology. Clinical Chemistry, 2019, 65, 342-344.   | 1.5 | 6         |
| 370 | Serum brain-derived neurotrophic factor remains elevated after long term follow-up of combat veterans with chronic post-traumatic stress disorder. Psychoneuroendocrinology, 2021, 134, 105360. | 1.3 | 6         |
| 371 | Microchemical instrumentation. Journal of Supramolecular Structure and Cellular Biochemistry, 1981, 17, 27-36.  | 1.4 | 5         |
| 372 | Peptide map comparisons of epidermal and spleen H-2 molecules. Immunogenetics, 1981, 12, 569-577.   | 1.2 | 5         |
| 373 | The Interdisciplinary Challenge. Bio/technology, 1993, 11, S9-S9.   | 1.9 | 5         |
| 374 | The expression of mouse T-cell receptor TCRDV genes in BALB/c spleen. Immunogenetics, 1994, 40, 271-9.  | 1.2 | 5         |
| 375 | Predicting Demographic Group Structures Based on DNA Sequence Data. Molecular Biology and Evolution, 2003, 20, 1168-1180.   | 3.5 | 5         |
| 376 | Systems Biology and the Emergence of Systems Medicine. , 2009, , 74-85.   |     | 5         |
| 377 | Functional Genomics, Proteomics, Metabolomics and Bioinformatics for Systems Biology. , 2013, , 3-41.   |     | 5         |
| 378 | Betaine homocysteine methyltransferase (BHMT) as a specific and sensitive blood marker for acute liver injury. Biomarkers, 2014, 19, 578-584.   | 0.9 | 5         |

| #   | ARTICLE   | IF   | CITATIONS |
|-----|---|------|-----------|
| 379 | Thioacetylation method of protein sequencing: Gas chromatography/ion trap mass spectrometric detection of 5-acetoxy-2-methylthiazoles. <i>The Protein Journal</i> , 1992, 11, 360-361.                              | 1.1  | 4         |
| 380 | Biotechnology, inquiry, and public education. <i>Trends in Biotechnology</i> , 2000, 18, 329-330.   | 4.9  | 4         |
| 381 | “Systems biology and systems medicine: From reactive to predictive, personalized, preventive and participatory (P4) medicine”, 2008, , .  |      | 4         |
| 382 | Phosphorescent zinc sulfide is a nonradioactive alternative for marking autoradiograms. <i>Analytical Biochemistry</i> , 1990, 189, 51-53.  | 1.1  | 3         |
| 383 | [11] Specific primer-directed DNA sequence analysis using automated fluorescence detection and labeled primers. <i>Methods in Enzymology</i> , 1993, 218, 122-153.  | 0.4  | 3         |
| 384 | TCRV and TCRJ gene usage in MBP responding T cells from (B10.PL <sup>h</sup> –PL/J)F1 mice is biased towards that of B10.PL mice. <i>Journal of Neuroimmunology</i> , 1997, 80, 13-22.                              | 1.1  | 3         |
| 385 | Wu and Kabat 1970: A Transforming View of Antibody Diversity. <i>Journal of Immunology</i> , 2008, 180, 7055-7056.  | 0.4  | 3         |
| 386 | Systems Biology and Systems Medicine. , 2010, , 131-141.  |      | 3         |
| 387 | Dominant Usage of T-Cell Receptor Alpha Gene Segments from One Parent in Experimental Autoimmune Encephalomyelitis Induced in F1 Mice. <i>Annals of the New York Academy of Sciences</i> , 1995, 756, 329-330.      | 1.8  | 2         |
| 388 | Oral Tolerance in Myelin Basic Protein TCR Transgenic Mice. <i>Annals of the New York Academy of Sciences</i> , 1996, 778, 412-413.   | 1.8  | 2         |
| 389 | Health Care of the 21st Century: Predictive, Preventive, Personalized and Participatory (P4) Medicine. <i>Journal of Oral and Maxillofacial Surgery</i> , 2006, 64, 14.   | 0.5  | 2         |
| 390 | Every Life Has Equal Value. <i>Cell</i> , 2013, 154, 1178-1179.   | 13.5 | 2         |
| 391 | Systems Biology and Systems Medicine. , 2013, , 60-72.  |      | 2         |
| 392 | Systems Medicine and the Emergence of Proactive P4 Medicine. , 2013, , 445-467.   |      | 2         |
| 393 | Reply to "Precision medicine in the clouds". <i>Nature Biotechnology</i> , 2018, 36, 680-682.   | 9.4  | 2         |
| 394 | Epigenetic Biotypes of PTSD in War-Zone Exposed Veteran and Active Duty Males. <i>Biological Psychiatry</i> , 2020, 87, S8-S9.  | 0.7  | 2         |
| 395 | The Hallmarks of Cancer Revisited Through Systems Biology and Network Modelling. , 2011, , 245-266.   |      | 2         |
| 396 | Pillars article: Transgenic mice that express a myelin basic protein-specific T cell receptor develop spontaneous autoimmunity. <i>Cell</i> . 1993. 72: 551-560. <i>Journal of Immunology</i> , 2013, 190, 3018-27. | 0.4  | 2         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 397 | Mouse Organ-Specific Proteins and Functions. <i>Cells</i> , 2021, 10, 3449.   | 1.8 | 2         |
| 398 | Complete nucleotide sequence of the cosmid vector pWE15A. <i>Nucleic Acids Research</i> , 1992, 20, 3786-3786.  | 6.5 | 1         |
| 399 | The complete nucleotide sequence of cosmid vector pTL5: location and origin of its genetic components. <i>Gene</i> , 1994, 147, 77-79.                                | 1.0 | 1         |
| 400 | Personal Dense Dynamic Data Clouds Connect Systems Biomedicine to Scientific Wellness. <i>Methods in Molecular Biology</i> , 2022, 2486, 315-334.                     | 0.4 | 1         |
| 401 | Investigating the importance of acylcarnitines in Alzheimer's disease.. <i>Alzheimer's and Dementia</i> , 2021, 17 Suppl 3, e056647.                                  | 0.4 | 1         |
| 402 | Developmental biologist Eric H. Davidson, 1937-2015. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13423-13425. | 3.3 | 0         |
| 403 | Welcome to Progress in Preventive Medicine from the Editorial Board. <i>Progress in Preventive Medicine (New York, N Y)</i> , 2016, 1, e0001.                         | 0.7 | 0         |
| 404 | MECHANISTIC AND DIRECTIONAL TRANSCRIPTIONAL REGULATORY NETWORKS IN ALZHEIMER'S DISEASE. <i>Alzheimer's and Dementia</i> , 2018, 14, P1014.                            | 0.4 | 0         |
| 405 | MULTI-OMIC BIOLOGICAL AGE ESTIMATION, CORRELATION WITH WELLNESS, DISEASE PHENOTYPES: LONGITUDINAL SAMPLE OF 3558. <i>Innovation in Aging</i> , 2019, 3, S209-S209.    | 0.0 | 0         |
| 406 | Systems approaches to biology and disease: integrating discovery and hypothesis-driven paradigms. <i>FASEB Journal</i> , 2010, 24, 182.1.                             | 0.2 | 0         |
| 407 | Examination of circulating DNA by using next generation sequence technology in colorectal cancer.. <i>Journal of Clinical Oncology</i> , 2015, 33, e14507-e14507.     | 0.8 | 0         |
| 408 | Case Study: A Precision Medicine Approach to Multifactorial Dementia and Alzheimer's Disease.. , 2021, 11, .  |     | 0         |