



Daniel A. Blasiolo, Ph.D.

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Service Areas:

- Intellectual Property

Education:

- Ph.D., Biochemistry, University of Wisconsin – Madison
- M.A., Philosophy of Science, University of California at San Diego
- B.A., Philosophy with Pre-Medical Curriculum, Franklin & Marshall College

Admissions:

- U.S. Patent & Trademark Office (USPTO)

Your patent counsel needs to understand your technology. As a registered patent agent, Dan brings to his practice a detailed understanding of experimental science, focused expertise in a number of biotechnological disciplines and extensive, hands-on research experience. Dan works with university technology transfer organizations, individual inventors, and companies ranging from startups to multi-national corporations in securing their patent rights both domestically and internationally and in managing their patent portfolios.

He conducts nearly all aspects of practice before the United States Patent and Trademark Office, including patent prosecution, requests for reexamination, and appeals before the Patent Trial and Appeal Board. In addition, Dan advises on such matters as invalidity opinions, freedom to operate opinions, patentability opinions, licensing agreements, and litigation.

Dan has experience with a number of technologies, including enzymes, antibodies, medical devices, pharmaceutical compounds, cellular reprogramming methods, assays, assay platforms, nutraceutical compositions, disease treatments, nanopositioning systems, chemical manufacturing processes, and mechanical devices, among others.

His practice is informed with his expertise in a number of areas of bioscience, such as biochemistry, cell biology, molecular biology, microbiology, genetics, and genomics. He has researched molecular and cellular mechanisms underlying metabolic disease, particularly the role of certain protein receptors and enzymes in regulating lipid metabolism. He has also contributed to a genetic mapping of mRNA expression and metabolic profiles in an F2 intercross between diabetes-resistant and diabetes-susceptible mouse strains. In addition, he has conducted molecular genetic research on microbial pathogens and developed multiplex real-time PCR viral diagnostic arrays for the U.S. Department of Defense.

Representative Patents

[U.S. Patent 11,985,974](#)

Antimicrobial ferulic acid derivatives and uses thereof

[U.S. Patent 11,981,904](#)

BAHD acyltransferases

[U.S. Patent 11,981,946](#)

Microorganisms and methods for producing 2-pyrone-4,6-dicarboxylic acid and other compounds

U.S. Patent 11,913,028	Artificial transcription factors and uses thereof
U.S. Patent 11,866,744	Gene construct encoding mutant thioesterase, mutant thioesterase encoded thereby, transformed host cell containing the gene construct, and method of using them to produce medium-chain fatty acids
U.S. Patent 11,845,958	Genetically modified genes and cells, and methods of using same for silencing virus gene expression
U.S. Patent 11,827,922	High throughput nucleic acid profiling of single cells
U.S. Patent 11,813,239	Compositions and methods for improving cardiac structure and/or function
U.S. Patent 11,807,875	Feruloyl-CoA:monolignol transferases
U.S. Patent 11,807,876	P-coumaroyl-CoA:monolignol transferases
U.S. Patent 11,779,040	Production of protein-polysaccharide conjugates
U.S. Patent 11,759,533	Methods and compositions for modulating gene expression
U.S. Patent 11,732,285	Selective enrichment media and uses thereof
U.S. Patent 11,721,021	Image analysis of epithelial component of histologically normal prostate biopsies predicts the presence of cancer
U.S. Patent 11,634,462	Methods of processing β -lactoglobulin-containing compositions with thermolysin and transglutaminase
U.S. Patent 11,608,524	Methods of analyzing cells
U.S. Patent 11,548,885	NLRX1 ligands
U.S. Patent 11,547,745	Compositions and methods for treating pancreatic enzyme deficiencies in mammals
U.S. Patent 11,542,548	Blood DNA methylation biomarker diagnostic test for anxiety and depressive disorders
U.S. Patent 11,492,342	Crystalline forms of piperazine-1,4-diylbis((6-(1H-benzo[d]imidazo-2-yl)pyridin-2yl)methanone)
U.S. Patent 11,491,185	Intra-mammary teat sealant formulation and method of using same to reduce or eliminate visual defects in aged cheeses
U.S. Patent 11,459,310	LANCL ligands
U.S. Patent 11,449,987	Image analysis of epithelial component of histologically normal prostate biopsies predicts the presence of cancer
U.S. Patent 11,447,754	In vitro methods of chemical conversion using non-stereospecific glutathione lyases
U.S. Patent 11,435,342	Sample clarification and reduction of background fluorescence for fluorescent detection of analytes
U.S. Patent 11,414,372	Methods for detecting and determining levels of monolignol ester conjugates incorporated into lignin and compounds relating thereto
U.S. Patent 11,408,014	Mutant thioesterases
U.S. Patent 11,377,694	Unbiased DNA methylation markers define an extensive field defect in histologically normal prostate tissues associated with prostate cancer: new biomarkers for men with prostate cancer
U.S. Patent 11,377,437	Lanthionine C-like protein 2 ligands, cells prepared therewith, and therapies using same
U.S. Patent 11,371,023	Artificial transcription factors and uses thereof
U.S. Patent 11,357,802	Oral delivery compositions for improved gut barrier protection and immunity in mammals
U.S. Patent 11,339,360	Culture systems and methods of using same
U.S. Patent 11,306,128	Methods of purifying mucin
U.S. Patent 11,242,544	Microbiomes and methods for producing medium-chain fatty acids from organic substrates
U.S. Patent 11,203,759	Oxygen-responsive bacterial gene switch
U.S. Patent 11,197,891	Therapies with lanthionine C-like protein 2 ligands and cells prepared therewith
U.S. Patent 11,197,836	Topical vasoconstrictor preparations and methods for protecting cells during cancer chemotherapy and radiotherapy
U.S. Patent 11,180,473	PLXDC2 ligands
U.S. Patent 11,168,340	Compositions and methods for producing lipids and other biomaterials from grain ethanol stillage and stillage derivatives
U.S. Patent 11,142,492	Methods of isolating phenols from phenol-containing media

U.S. Patent 11,117,881	Lanthionine c-like protein 2 ligands, cells prepared therewith, and therapies using same
U.S. Patent 11,066,364	NLRX1 ligands
U.S. Patent 11,065,657	Compositions and methods for oxidizing and sequestering carbon and stabilizing metals
U.S. Patent 11,053,480	Gene construct encoding mutant thioesterase, mutant thioesterase encoded thereby, transformed host cell containing the gene construct, and method of using them to produce medium-chain fatty acids
U.S. Patent 11,028,418	Microorganisms and methods for producing 2-pyrone-4,6-dicarboxylic acid and other compounds
U.S. Patent 11,028,235	Polycarboxylated compounds and compositions containing same
U.S. Patent 11,026,888	Functional beverage compositions and methods of using and making same
U.S. Patent 11,008,577	Oleaginous microorganisms and uses of same
U.S. Patent 10,993,450	Processes for removal of lactose from dried milk products
U.S. Patent 10,982,240	Production of polyhydroxy alkanooates with a defined composition from an unrelated carbon source
U.S. Patent 10,982,234	Microorganisms that co-consume glucose with non-glucose carbohydrates and methods of use
U.S. Patent 10,945,448	Process for removing phospholipids and off-flavors from proteins and resulting protein product
U.S. Patent 10,905,748	Ovotransferrin treatment for the reproductive tract
U.S. Patent 10,898,552	Microorganisms and methods for producing biologics and introducing biologics to sites
U.S. Patent 10,883,090	P-coumaroyl-CoA:monolignol transferases
U.S. Patent 10,883,089	Feruloyl-CoA:monolignol transferases
U.S. Patent 10,881,635	Tannin-containing gastrointestinal formulations and methods of use
U.S. Patent 10,878,935	Systems and methods for determining genotypes for performing physiological functions
U.S. Patent 10,849,895	Lanthionine synthetase C-like 2-based therapeutics
U.S. Patent 10,844,410	Mutant thioesterases
U.S. Patent 10,834,945	Methods of high pressure processing and products produced therewith
U.S. Patent 10,829,745	In vitro methods for processing lignin and other aromatic compounds
U.S. Patent 10,765,135	Production of protein-polysaccharide conjugates
U.S. Patent 10,744,085	Intra-mammary teat sealant formulation and method of using same to reduce or eliminate visual defects in aged cheeses
U.S. Patent 10,736,915	Nylon-3 co-polymers and synthetic lung surfactant compositions containing same
U.S. Patent 10,689,631	Gene construct encoding mutant thioesterase, mutant thioesterase encoded thereby, transformed host cell containing the gene construct, and method of using them to produce medium-chain fatty acids
U.S. Patent 10,682,349	Lanthionine synthetase C-like 2-based therapeutics
U.S. Patent 10,676,436	NLRX1 ligands
U.S. Patent 10,662,448	Compositions and methods for producing lipids and other biomaterials from grain ethanol stillage and stillage derivatives
U.S. Patent 10,619,130	Selective enrichment media and uses thereof
U.S. Patent 10,604,742	Adsorptive membranes for trapping viruses
U.S. Patent 10,573,404	Systems and methods for determining flux distribution
U.S. Patent 10,493,072	Lanthionine synthetase C-like 2-based therapeutics
U.S. Patent 10,487,057	NLRX1 ligands
U.S. Patent 10,463,719	Microorganisms and methods for producing biologics and introducing biologics to sites
U.S. Patent 10,443,084	Naphthalene derived chromogenic enzyme substrates
U.S. Patent 10,421,951	Gene construct encoding mutant thioesterase, mutant thioesterase encoded thereby, transformed host cell containing the gene construct, and method of using them to produce medium-chain fatty acids
U.S. Patent 10,406,232	Oral delivery compositions for treating dermatitis disorders in mammals

U.S. Patent 10,385,334	Molecular identity tags and uses thereof in identifying intermolecular ligation products
U.S. Patent 10,376,563	Methods for systemically delivering polypeptides and microorganisms therefor
U.S. Patent 10,370,690	Microorganisms for producing glycogen and methods of using same
U.S. Patent 10,336,868	Polycarboxylated compounds and compositions containing same
U.S. Patent 10,323,121	Poly-beta-peptides from functionalized beta-lactam monomers and antibacterial compositions containing same
U.S. Patent 10,322,998	Heterogeneous foldamers containing alpha, beta, and/or gamma-amino acids
U.S. Patent 10,321,569	Electronic module and method of making same
U.S. Patent 10,316,296	Adsorptive membranes for trapping viruses
U.S. Patent 10,301,653	Microorganisms that co-consume glucose with non-glucose carbohydrates and methods of use
U.S. Patent 10,273,511	Enzymes for producing non-straight-chain fatty acids
U.S. Patent 10,246,725	Microorganisms and methods for producing pyruvate, ethanol, and other compounds
U.S. Patent 10,233,206	D-fagomine for the control of inflammatory processes related to an overactivation of the humoral immune response
U.S. Patent 10,227,287	Method for detecting and determining levels of monolignol ester conjugates incorporated into lignin and compounds relating thereto
U.S. Patent 10,201,538	Lanthionine synthetase C-like 2-based therapeutics
U.S. Patent 10,184,141	Microorganisms for producing glycogen and methods of using same
U.S. Patent 10,144,938	Methods of processing aromatic compounds
U.S. Patent 10,105,345	Tannin-containing gastrointestinal formulations and methods of use
U.S. Patent 10,104,888	Tannin-chitosan composites
U.S. Patent 10,093,918	Sample collection and analysis devices
U.S. Patent 10,051,873	Processes for removal of lactose from dried milk products
U.S. Patent 10,028,950	Lanthionine synthetase C-like 2-based therapeutics
U.S. Patent 9,956,167	Intra-mammary teat sealant formulation and method of using same to reduce or eliminate visual defects in aged cheeses
U.S. Patent 9,938,562	Naphthalene derived chromogenic enzyme substrates
U.S. Patent 9,925,213	Nylon-3 co-polymers and synthetic lung surfactant compositions containing same
U.S. Patent 9,920,102	Fusion tags for protein expression
U.S. Patent 9,916,416	System and method for genotyping using informed error profiles
U.S. Patent 9,903,028	Nitroxyl-mediated oxidation of lignin and polycarboxylated products
U.S. Patent 9,879,303	Chromogenic glucuronidase substrates and uses
U.S. Patent 9,856,459	Adsorptive membranes for trapping viruses
U.S. Patent 9,850,505	Microorganisms and methods for producing pyruvate, ethanol, and other compounds
U.S. Patent 9,839,638	Compositions and methods for protecting cells during cancer chemotherapy and radiotherapy
U.S. Patent 9,839,635	Lanthionine synthetase C-like 2-based therapeutics
U.S. Patent 9,796,660	Gamma amino acid building blocks
U.S. Patent 9,765,343	Linear vectors, host cells and cloning methods
U.S. Patent 9,708,630	Cells and methods for producing fatty alcohols
U.S. Patent 9,694,000	ITE for cancer intervention and eradication
U.S. Patent 9,683,081	Poly-beta-peptides from functionalized beta-lactam monomers and antibacterial compositions containing same
U.S. Patent 9,651,487	Surface plasmon resonance compatible carbon thin films
U.S. Patent 9,556,146	Lanthionine synthetase C-like 2-based therapeutics
U.S. Patent 9,545,423	Tannin-chitosan composites
U.S. Patent 9,522,131	Tannin-containing gastrointestinal formulations and methods of use
U.S. Patent 9,518,283	Selective enrichment media and uses thereof
U.S. Patent 9,480,729	Enzymes for inhibiting growth of biofilms and degrading same

U.S. Patent 9,458,100	Synthesis and growth regulatory activity of a prototype member of a new family of aminothiol radioprotectors
U.S. Patent 9,428,732	Compositions and methods for differentiating pluripotent stem cells into primitive blood cells and uses thereof
U.S. Patent 9,416,341	Sustained release additives for fermentation products
U.S. Patent 9,388,285	Method for modifying lignin structure using monolignol ferulate conjugates
U.S. Patent 9,382,291	Gamma amino acid building blocks
U.S. Patent 9,375,499	Adsorptive membranes for trapping viruses
U.S. Patent 9,370,534	Biocidal polymers
U.S. Patent 9,359,322	C-linked glucuronide of N-(4-hydroxybenzyl) retinone, analogs thereof, and method of using the same to inhibit neoplastic cell growth
U.S. Patent 9,354,175	Lucigen yellow (LucY), a yellow fluorescent protein
U.S. Patent 9,238,645	ITE for cancer intervention and eradication
U.S. Patent 9,044,392	Nylon-3 co-polymers and synthetic lung surfactant compositions containing same
U.S. Patent 9,044,034	Blue cheese product and process for preparing same
U.S. Patent 9,034,641	Translation-coupling systems
U.S. Patent 9,029,134	Linear vectors, host cells and cloning methods
U.S. Patent 9,029,118	Selective enrichment media and uses thereof
U.S. Patent 8,999,657	Reagents, methods, and kits for the classification of cancer
U.S. Patent 8,969,534	Selective aerobic alcohol oxidation method for conversion of lignin into simple aromatic compounds
U.S. Patent 8,946,302	Selective sigma-1 receptor ligands
U.S. Patent 8,865,770	Carbamide peroxide treatments for the reproductive tract
U.S. Patent 8,846,354	Microorganisms for producing organic acids
U.S. Patent 8,846,329	Microorganisms for producing organic acids
U.S. Patent 8,828,422	Stabilized liquid egg material for extended shelf life
U.S. Patent 8,822,543	Method of using punicic acid to enhance immune response and prevent metabolic disorders
U.S. Patent 8,815,263	Tandem facial amphiphiles
U.S. Patent 8,795,714	Intra-mammary teat sealant formulation and method of using same to reduce or eliminate visual defects in aged cheeses
U.S. Patent 8,771,772	Method to separate lipids from cheese whey
U.S. Patent 8,715,973	Organic acid-tolerant microorganisms and uses thereof for producing organic acids
U.S. Patent 8,685,672	Incorporation of flavan-3-ols and gallic acid derivatives into lignin to improve biomass utilization
U.S. Patent 8,642,536	Method of making biologically active alpha-beta peptides
U.S. Patent 8,623,652	Host-vector system for cloning and expressing genes
U.S. Patent 8,617,856	Fatty acid-producing hosts
U.S. Patent 8,574,898	Translation-coupling systems
U.S. Patent 8,569,465	Method for modifying lignin structure using monolignol ferulate conjugates
U.S. Patent 8,568,448	Clotting cascade initiating apparatus and methods of use and methods of closing wounds
U.S. Patent 8,501,220	Stabilized liquid egg material for extended shelf life
U.S. Patent 8,461,136	Compositions and methods for protecting cells during cancer chemotherapy and radiotherapy
U.S. Patent 8,431,174	Method to separate lipids from cheese whey
U.S. Patent 8,404,890	Production of 2,4-hexadienoic acid and 1,3-pentadiene from 6-methyl-5,6-dihydro-2-pyrone
U.S. Patent 8,211,906	Method of inhibiting growth of neoplastic cells and inhibiting infection by administering an immune enhancer drug
U.S. Patent 8,093,030	Thermostable viral polymerases and methods of use
U.S. Patent 8,088,612	Thermostable cellulase and methods of use
U.S. Patent 8,084,500	Methods of using catalpic acid to treat dyslipidemia

[U.S. Patent 7,960,164](#)

[U.S. Patent 7,834,058](#)

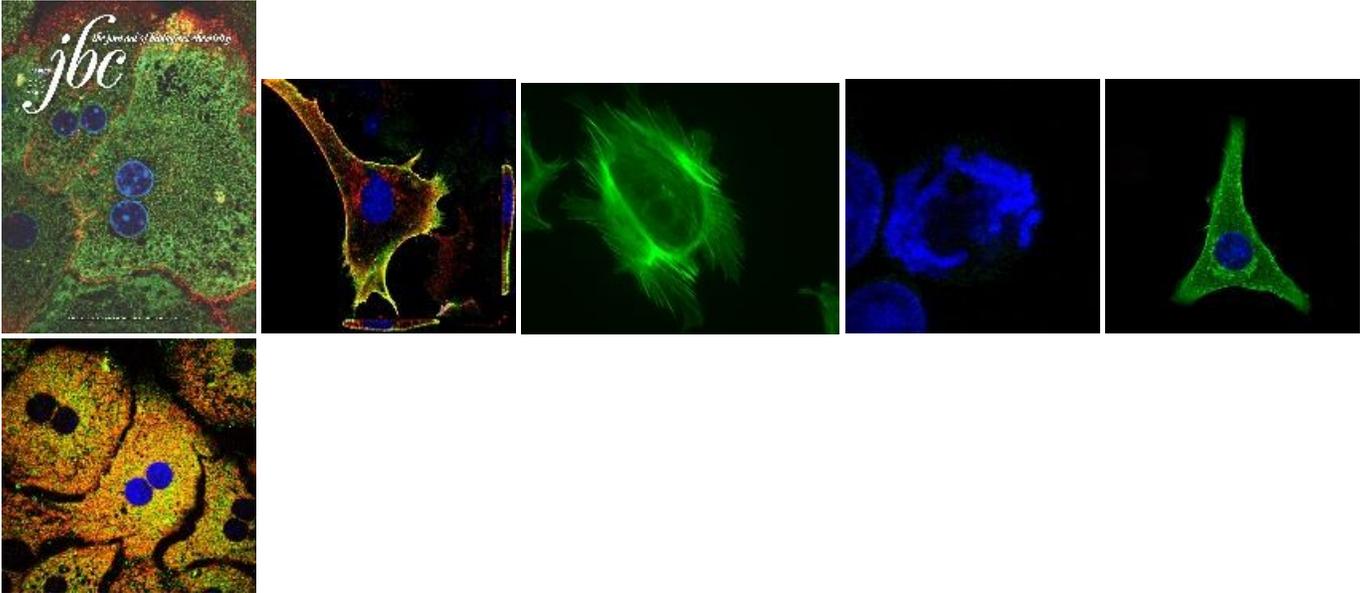
[U.S. Patent 7,807,636](#)

Selective growth medium for *Listeria* spp.

Method of using catalpic acid to treat hyperinsulinemia

Bovine P-selectin glycoprotein ligand-1

Scientific Work



Scientific Publications

- Blasiolo DA, Oler AT, Attie, AD. Regulation of apoB secretion by the LDL receptor requires exit from the cytoplasmic reticulum and interaction with apoE or apoB. *J Biol Chem.* 2008; 25;283(17):11374-81. ([Link](#))
- Ferrara CT, Wang P, Neto EC, Stevens, RD, Bain JR, Wenner BR, Ilkayeva OR, Keller MP, Blasiolo DA, Kendziorski C, Yandell BS, Newgard CB, Attie AD. Genetic networks of liver metabolism revealed by integration of metabolic and transcriptional profiling. *PLoS Genet.* 2008; 14;4(3):e1000034. ([Link](#))
- Blasiolo DA, Davis RA, Attie AD. The physiological and molecular regulation of lipoprotein assembly and secretion. *Mol Biosyst.* 2007; 3(9):608-19. ([Link](#))
- Nassoury N, Blasiolo DA, Tebon Oler A, Benjannet S, Hamelin J, Poupon V, McPherson PS, Attie AD, Prat A, Seidah NG. The cellular trafficking of the secretory proprotein convertase PCSK9 and its dependence on the LDLR. *Traffic.* 2007; 8(6):718-32. ([Link](#))
- Freed NE, Blasiolo D, Daum L, Metzgar D, Wu J, Russell KL. Detection of influenza A, influenza B, and adenoviruses using single tube fluorogenic PCR with melting curve analysis. In *Strengthening Influenza Pandemic Preparedness through Civil-Military Cooperation*, edited by Neville J and Kisilev OI, pp. 123-128; 2005. Amsterdam: IOS Press.
- Blasiolo DA, Metzgar D, Daum LT, Ryan MA, Wu J, Wills C, Le CT, Freed NE, Hansen CJ, Gray GC, Russell KL. Molecular analysis of adenovirus isolates from vaccinated and unvaccinated young adults. *J Clin Microbiol.* 2004; 42(4): 1686-93. ([Link](#))