

<b>Publications</b>
<a href="#">Quartz Crystal Microbalance Method to Measure Nanoparticle–Receptor Interactions and Evaluate Nanoparticle Design Efficiency</a>
<a href="#">A dynamic reversible phenylboronic acid sensor for real-time determination of protein–carbohydrate interactions on living cancer cells - Chemical Communications (RSC Publishing)</a>
<a href="#">Analytical and clinical characterization of an optimized dual monoclonal sandwich ELISA for the quantification of thymidine kinase 1 (TK1) protein in human blood samples</a>
<a href="#">Defining the specificity and function of a human neutralizing antibody for Hepatitis B virus</a>
<a href="#">Mapping the allosteric effects that define functional activity of SARS-2 CoV-2 specific antibodies</a>
<a href="#">Defining Factors that Influence vaccine-induced, cross-variant neutralizing antibodies for SARS-CoV-2 in Asians.</a>
<a href="#">Kinetics and interaction studies of anti-tetraspanin antibodies and ICAM-1 with extracellular vesicle subpopulations using continuous flow quartz crystal microbalance biosensor</a>
<a href="#">Oxytocin-Selective Nanogel Antibody Mimics</a>
<a href="#">Palladium nanoparticles immobilized on polyethylenimine-derivatized gold surfaces for catalysis of Suzuki reactions: development and application in a lab-on-a-chip context</a>
<a href="#">Investigating histidine-rich glycoprotein and T cell-specific adaptor as potential biomarkers and therapeutic targets</a>
<a href="#">Two-Component Nanoparticle Vaccine Displaying Glycosylated Spike S1 Domain Induces Neutralizing Antibody Response against SARS-CoV-2 Variants</a>
<a href="#">Cryo-EM reveals the architecture of placental malaria VAR2CSA and provides molecular insight into chondroitin sulfate binding</a>
<a href="#">Comprehensive mutagenesis identifies the peptide repertoire of a p53 T-cell receptor mimic antibody that displays no toxicity in mice transgenic for human HLA-A*0201</a>
<a href="#">Capsid-like particles decorated with the SARS-CoV-2 receptor-binding domain elicit strong virus neutralization activity</a>
<a href="#">Molecularly Imprinted Chitosan-Based Thin Films with Selectivity for Nicotine Derivatives for Application as a Bio-Sensor and Filter</a>
<a href="#">The Solution to Improve Profitability in Pharmaceutical Development; How to Increase Pre-clinical Productivity and Success Rates in Clinical Trials</a>
<a href="#">Inhibition of Tumor Cell Growth and Cancer Stem Cell Expansion by a Bispecific Antibody Targeting EGFR and HER3</a>
<a href="#">The impact of structural modification of sulfated polysaccharides on bone morphogenic protein 2 and inhibition of endothelial cell angiogenesis</a>
<a href="#">Novel approach to the measurement of antithyroglobulin antibodies in human serum – application of the quartz crystal microbalance sensors</a>
<a href="#">Direct attachment of suspension cells to PDA surface and its application in suspension-cell QCM biosensor</a>
<a href="#">The mechanism of Hsp90-induced oligomerization of Tau</a>
<a href="#">Superior Treg-Expanding Properties of a Novel Dual-Acting Cytokine Fusion Protein</a>
<a href="#">TLR9 Agonist Cobitolimod Induces IL10-Producing Wound Healing Macrophages and Regulatory T Cells in Ulcerative Colitis   Journal of Crohn's and Colitis   Oxford Academic (oup.com)</a>
<a href="#">Recombinant spider silk coatings functionalized with enzymes targeting bacteria and biofilms</a>
<a href="#">Electro-Responsive Surface Composition and Kinetics of an Ionic Liquid in a Polar Oil</a>
<a href="#">Monovalent TNF receptor 1-selective antibody with improved affinity and neutralizing activity</a>
<a href="#">Dectin-1 Binding to Annexins on Apoptotic Cells Induces Peripheral Immune Tolerance via NADPH Oxidase-2</a>
<a href="#">Phenotypic Screen with the Human Secretome Identifies FGF16 as Inducing Proliferation of iPSC-Derived Cardiac Progenitor Cells</a>

<a href="#">Rapid affinity chromatographic isolation method for LDL in human plasma by immobilized chondroitin-6-sulfate and anti-apoB-100 antibody monolithic disks in tandem</a>
<a href="#">Defining the structural basis for human alloantibody binding to human leukocyte antigen allele HLA-A*11:01</a>
<a href="#">Improved monovalent TNF receptor 1-selective inhibitor with novel heterodimerizing Fc</a>
<a href="#">Anti-LRP5/6 VHHs promote differentiation of Wnt-hypersensitive intestinal stem cell</a>
<a href="#">Electrochemically synthesized molecularly imprinted polythiophene nanostructures as recognition elements for an aspirin-chemosensor</a>
<a href="#">Selection of a monoclonal antibody by ELISA, immunoblotting and Quartz Crystal Microbalance technology for immunohistochemical detection of Mycoplasma mycoides subsp. mycoides</a>
<a href="#">Monovalent TNF receptor 1-selective antibody with improved affinity and neutralizing activity</a>
<a href="#">Generation by phage display and characterization of drug-target complex-specific antibodies for pharmacokinetic analysis of biotherapeutics</a>
<a href="#">Fabrication of Carbohydrate Chips based on polydopamine for Real-Time Determination of Carbohydrate-lectin interactions</a>
<a href="#">Differential recognition of Haemophilus influenzae whole bacterial cells and isolated lipooligosaccharides by galactospecific lectins</a>
<a href="#">Selective Sensing of the Biotinyl Moiety Using Molecular Imprinted Polyaniline Nanowires</a>
<a href="#">A Single-Chain-Based Hexavalent CD27 Agonist Enhances T Cell Activation and Induces Anti-Tumor Immunity</a>
<a href="#">Effects of the flow type on the immobilisation of horseradish peroxidase on the immobilisation</a>
<a href="#">Label-Free Cell-Based Assay for Characterization of Biomolecules and Receptors</a>
<a href="#">Bacterial Surface Glycans: Microarray and QCM Strategies for Glycophenotyping and Exploration of Recognition by Host Receptors</a>
<a href="#">(PDF) Off-target testing assays (researchgate.net)</a>
<a href="#">Fluorescent Image-Guided Surgery with an Anti-Prostate Stem Cell Antigen (PSCA) Diabody Enables Targeted Resection of Mouse Prostate</a>
<a href="#">A reliable strategy for analysis of complex biosensor data</a>
<a href="#">Label-free in-flow detection of receptor recognition motifs on the biomolecular corona of nanoparticles</a>
<a href="#">Virus-like particle display of HER2 induces potent anti-cancer responses</a>
<a href="#">Synthesis and binding affinity analysis of <math>\alpha</math>1-2- and <math>\alpha</math>1-6-O/S-linked dimannosides for the elucidation of sulfur in glycosidic bonds using quartz crystal microbalance sensors</a>
<a href="#">QCM Biosensor Based on Polydopamine Surface for Real-Time Analysis of the Binding Kinetics of Protein-Protein Interactions</a>
<a href="#">Optimization of 3D Surfaces of Dextran with Different MoleculeWeights for Real-Time Detection of Biomolecular Interactions by a QCM Biosensor</a>
<a href="#">Novel QCM based method to predict the in-vivo behaviour of nanoparticles</a>
<a href="#">Novel strategies to mimic transmembrane tumor necrosis factor-dependent activation of tumor necrosis factor receptor 2</a>
<a href="#">Inhibition of HER3 activation and tumour growth with a human antibody binding to a conserved epitope formed by domain III and IV</a>
<a href="#">Temperature effect on the complex formation between PLLuronic acid F127 and starch</a>
<a href="#">Cellular glycosylation affects Herceptin binding and sensitivity of breast cancer cells to doxorubicin and growth factors</a>
<a href="#">Spatially Well-Defined Carbohydrate Nanoplatfoms: Synthesis, Characterization and Lectin Interaction Study</a>
<a href="#">Signal enhancement in ligand-receptor interactions using dynamicpolymers at quartz crystal microblance sensors</a>

Combined Bacteria Microarray and Quartz Crystal Microbalance Approach for Exploring Glycosignatures of Nontypeable Haemophilus influenzae and Recognition by Host...
Thermosensitive silica-pluronic-starch model coating dispersion-part I: The effect of Pluronic block copolymer adsorption on the colloidal stability and rheology
Real-time and label free determination of ligand binding-kinetics to primary cancer tissue specimens; a novel tool for the assessment of biomarker targeting
Glyconanomaterials for biosensing applications
Ionization of covalent immobilized poly(4-vinylphenol) monolayers measured by ellipsometry, QCM and SPR
Facile fabrication of glyco-polymer based iron oxide nanoparticles and their applications in the carbohydrate-lectin interaction and targeted cell imaging
Biomimetic Approach for Ion Channels Based on Surfactant Encapsulated Spherical Porous Metal-Oxide Capsules
Pharmacokinetic properties of IgG and various Fc fusion proteins in mice
Oriented and reversible immobilization of His-tagged proteins on two- and three-dimensional surfaces for study of protein-protein interactions by a QCM biosensor
Targeting Human Cancer by a Glycosaminoglycan binding Malaria protein
A Fab-Selective Immunoglobulin-Binding Domain from Streptococcal Protein G with Improved Half-Life Extension Properties
Weighing the surface charge of an ionic liquid
Real time and label free analysis of binding thermodynamics of carbohydrate protein interactions on unfixed cancer cell surfaces using a QCM biosensor
Synthesis and binding affinity analysis of positional thiol analogs of mannopyranose for the elucidation of sulfur in different position
Investigating manufactured nanoparticles
Study of the Interaction of Trastuzumab and SKOV3 epithelial cancer cells using a Quartz Crystal Microbalance Sensor
Preclinical and early clinical development of GNBAC1, a humanized IgG4 monoclonal antibody targeting endogenous retroviral MSRV-Env protein.
Heparin Impairs Angiogenesis through Inhibition of MicroRNA-10b
Inducement of Cytokine Release by GFPBW2, a Novel Polysaccharide from Fruit Bodies of Grifola frondosa, through Dectin-1 in Macrophages
Binding to Heparan Sulfate Chains Modulates Cellular Activity by Selectively The C-terminal Peptide of Chondroadherin
Improved Modeling of In Vivo Kinetics of Slowly Diffusing Radiotracers for Tumor Imaging
Quantitative ImmunoPET of Prostate Cancer Xenografts with 89Zr- and 124I-Labeled Anti-PSCA A11 Minibody
Highly potent dUTPase inhibition by a bacterial repressor protein reveals a novel mechanism for gene expression control
One-Step Synthesis of Dual Clickable Nanospheres via Ultrasonic-
3D modeling and characterization of the human CD115 monoclonal antibody H27K15 epitope and design of a chimeric CD115 target
Soluble components of the flagellar export apparatus, FliI, FliJ, and FliH, do not deliver flagellin, the major filament protein, from the cytosol to the export gate
Mapping the immunogenicity of therapeutic protein products
Talking Sense
Oligosaccharide G19 inhibits U-87 MG human glioma cells growth in vitro and in vivo by targeting epidermal growth factor (EGF) and activating p53/p21 signaling.

Label free cell based assay for the characterisation of peptide receptor interaction
Partial-filling affinity capillary electrophoresis and quartz crystal microbalance with adsorption energy distribution calculations in the study of biomolecular interactions with....
Hierarchical Thin Film Architectures for Enhanced Sensor Performance: Liquid Crystal-Mediated Electrochemical Synthesis of Nanostructured Imprinted Polymer Films for the.....
A Phage Display Screening Derived Peptide with Affinity for the Adenyl Moiety
Entropy-driven lectin-recognition of multivalent glycovesicles
Three complementary techniques for the clarification of temperature effect on low-density lipoprotein–chondroitin-6-sulfate interaction
Atmospheric pressure plasma polymers for QCM detection of protein adhesion
Biotin selective polymer nano-films
Multivalent Recognition of Concanavalin A by {Mo132} Glyconanocapsules-Toward Biomimetic Hybrid Multilayers
A unique anti-CD 115 monoclonal antibody which inhibits osteolysis and skews human monocyte differentiation from M2-polarised macrophages towards dendritic cells.
Antagonistic TNF Receptor One-Specific Antibody (ATROSAB): Receptor Binding and In Vitro Bioactivity
An anti-TNFR1 scFv-HSA fusion protein as selective antagonist of TNF action
Protection by immunoglobulin dual-affinity retargeting antibodies against dengue virus
Protein-resistant hyperbranched polyethyleneimine brush surfaces
A suspension-cell biosensor for real-time determination of binding kinetics of protein–carbohydrate interactions on cancer cell surfaces
Direct and Dynamic Detection of HIV-1 in Living Cells
Photogenerated lectin sensors produced by thiol-ene/yne photo-click chemistry in aqueous solution
A novel approach to determining the affinity of protein–carbohydrate interactions employing adherent cancer cells grown on a biosensor surface
Functionalization of single-walled carbon nanotubes and their binding to cancer cells
A New Generation of Cell-Biosensors
Real-time analysis of the carbohydrates on cell surfaces using a QCM biosensor: a lectin-based approach
Domain-based assays of individual antibody concentrations in an oligoclonal combination targeting a single protein
Half-life extension of a single-chain diabody by fusion to domain B of staphylococcal protein A
The effect of adjuvants on the immune response induced by a DBL4ε-ID4 VAR2CSA based Plasmodium falciparum vaccine against placental malaria
Structural and Functional Insight into How the Plasmodium falciparum VAR2CSA Protein Mediates Binding to Chondroitin Sulfate A in Placental Malaria
Plasma half-life extension of small recombinant antibodies by fusion to immunoglobulin-binding domains (IgBD)
In Vitro Evolution of Allergy Vaccine Candidates, with Maintained Structure, but Reduced B Cell and T Cell Activation Capacity
Unbinding of hyaluronan accelerates the enzymatic activity of bee hyaluronidase
Neonatal FcR Overexpression Boosts Humoral Immune Response in Transgenic Mice
Polyethylene glycol-stabilized lipid disks as model membranes in interaction studies based on electrokinetic capillary chromatography and quartz crystal microbalance

Collagen I and III and their decorin modified surfaces studied by atomic force microscopy and the elucidation of their affinity toward positive apolipoprotein B-100 residue by quartz crystal...
Improving the Developability of Biopharmaceuticals
Magnetosome expression of functional camelid antibody fragments (nanobodies) in Magnetospirillum gryphiswaldense
Towards a Synthetic Avidin Mimic
Three Different Approaches for the Clarification of the Interactions between Lipoproteins and Chondroitin-6-sulfate
The Chondroitin Sulfate A-binding Site of the VAR2CSA Protein Involves Multiple N-terminal Domains
Systematic investigation of biomolecular interactions using combined frequency and motional resistance measurements
Photo-Click Immobilization on Quartz Crystal Microbalance Sensors for Selective Carbohydrate-Protein Interaction Analyses
The effects of affinity and valency of an albumin-binding domain (ABD) on the half-life of a single-chain diabody-ABD fusion protein
WSS25 inhibits growth of xenografted hepatocellular cancer cells in nude mice by disrupting angiogenesis via blocking bone morphogenetic protein (BMP)/Smad/Id1 signaling
The kinetics of antibody binding to Plasmodium falciparum VAR2CSA PfEMP1 antigen and modeling of PfEMP1 antigen packing on the membrane knobs
Humanization of a Mouse Monoclonal Antibody Directed Against a Cell Surface-Exposed Epitope of Membrane-Associated Heat Shock Protein 70 (Hsp70)
Dynamic glycovesicle systems for amplified QCM detection of carbohydrate-lectin multivalent biorecognition
Quartz crystal microbalance, a valuable tool for elucidation of interactions between apoB-100 peptides and extracellular matrix components
Optimizing immobilization on two-dimensional carboxyl surface: pH dependence of antibody orientation and antigen binding capacity
Multivalent recognition of lectins by glyconanoparticle systems
Modulation of protein properties in living cells using nanobodies
Crude Sample Analysis Made Easy
Photo-Click Immobilization of Carbohydrates on Polymeric Surfaces-A Quick Method to Functionalize Surfaces for Biomolecular Recognition Studies
Biodistribution of a Bispecific Single-chain Diabody and Its Half-life Extended Derivatives
On the applicability of high frequency acoustic shear mode biosensing in view of thickness limitations set by the film resonance
Controlled release of functional proteins through designer self-assembling peptide nanofiber hydrogel scaffold
Characterization of Monoclonal Antibodies Directed against Squamous Cell Carcinoma Antigens: Report of the Second TD-10 Workshop
Surface-Confined Photopolymerization of pH-Responsive Acrylamide/Acrylate-Brushes on Polymer Thin Films
Generation, Affinity Maturation, and Characterization of a Human Anti-Human NKG2D Monoclonal Antibody with Dual Antagonistic and Agonistic Activity
Flow-injection assay of the pathogenic bacteria using lectin-based quartz crystal microbalance biosensor
Photoderivatized Polymer Thin Films at Quartz Crystal Microbalance Surfaces: Sensors for Carbohydrate-Protein Interactions
Forces and friction between hydrophilic and hydrophobic surfaces: Influence of oleate species
System for in situ studies of atmospheric corrosion of metal films using soft x-ray spectroscopy and quartz crystal microbalance
Quartz crystal microbalance biosensor design II. Simulation of sample transport

Quartz crystal microbalance sensor design I. Experimental study of sensor response and performance
Quartz crystal microbalance bioaffinity sensor for rapid identification of glycosyldisulfide lectin inhibitors from a dynamic combinatorial library
Redox-responsive and calcium-dependent switching of glycosyldisulfide interactions with Concanavalin A
Study of real-time lectin-carbohydrate interactions on the surface of a quartz crystal microbalance
Electro-immobilization of proinsulin C-peptide to a quartz crystal microbalance sensor chip for protein affinity purification
Isolation of novel single-chain Cro proteins targeted for binding to the bcl-2 transcription initiation site by repertoire selection and subunit combinatorics
Molecularly imprinted polymer thin films on quartz crystal microbalance using a surface bound photo-radical initiator