

Annual Subject Index

1,2,3-triazoles		<i>Acidithiobacillus ferrooxidans</i>	
Synthesis, DFT and Molecular docking study of novel bis 1,2,3-triazole derivatives of 2-hydroxyquinoline-4-carboxylate as antimicrobial agents	729	Preliminary studies on microbial induced corrosion of ferrous materials (EN-8 and 411143 steels) in the presence of <i>Acidithiobacillus ferrooxidans</i>	352
16S rRNA sequencing		Adenosquamous	
Molecular characterization of phycobiliproteins producing Cyanobacteria by using nanopore sequencer isolated from dairy effluent	423	'TRAIL' of targeted colorectal cancer therapy	95
16S rRNA		ADME	
Novel primer designing and PCR-AFLP approach for an expeditious detection of coliforms in potable waters	65	Blind docking of 4-Amino-7-Chloroquinoline analogs as potential dengue virus protease inhibitor using CB Dock a web server	55
2,4-dihydroxybenzaldehyde		ADMET analysis	
Inhibitory activity of polyphenolic compound extracted from <i>P. betel</i> and <i>T. aestivum</i> with hepcidin for Iron deficiency anemia: An <i>in silico</i> approach	448	Generating a potent inhibitor against MCF7 breast cancer cell through artificial intelligence based virtual screening and molecular docking studies	844
2-butyloctanoic acid		Age-related disorders	
Determination of neuroprotective effects of medium chain fatty acids and their derivatives on mutant huntingtin aggregates, oxidative stress and ATP levels in HD150Q cell line model of Huntington's disease	741	Protein Carbamylation in Neurodegeneration and other age-related disorders	659
2FOM		Alcoholic soxhlation method	
Blind docking of 4-Amino-7-Chloroquinoline analogs as potential dengue virus protease inhibitor using CB Dock a web server	55	Phytochemical evaluation and anti-psoriatic activity of the ethanolic extract of the leaves of <i>Thespesia populnea</i>	156
3T3-L1		Alkaloids	
Allosteric modulation on specific gene mutated Vitamin D receptor by essential PUFAs and its distinct molecular effects on type 2 diabetes mellitus	339	Computational Insights into the interaction of Piperine with Immune Regulatory Proteins: A Docking Study	478
<i>ACE2</i> gene		Allosteric Inhibitor	
Effects of Morpholino-mediated knockdown of the Angiotensin-converting enzyme 2 (<i>ACE-2</i>) on dopamine Neurogenesis and the Hypothalamic Pituitaryadrenal (HPA) Axis in Larval Zebrafish (<i>Danio rerio</i>)	414	Polyphenol MHQP as an allosteric inhibitor of Kinesin-5: Cease the molecular catwalk of "Drunken Sailor"	703
Acetylcholinesterase		<i>Alternanthera philoxeroides</i>	
Some bis (3-(4-nitrophenyl)acrylamide derivatives: Synthesis, characterization, DFT, antioxidant, antimicrobial properties, molecular docking and molecular dynamics simulation studies	209	A study on variation in spatial voltage distribution pattern across tissue layers between non-excitabile plant and excitable plant	307
AChE		Altitude	
Some bis (3-(4-nitrophenyl)acrylamide derivatives: Synthesis, characterization, DFT, antioxidant, antimicrobial properties, molecular docking and molecular dynamics simulation studies	209	Variation in morphological, biochemical and antioxidant properties of <i>Lilium polyphyllum</i>	237
		Amino acids	
		Cytotoxic and microbial studies of mixed metal complexes	231
		Blind docking of 4-Amino-7-Chloroquinoline analogs as potential dengue virus protease inhibitor using CB Dock a web server	55
		AMPs	
		Pharmacological and therapeutic potential of honey bee antimicrobial peptides	365

Anabantiformes

Ultrastructural variations of the sagittae in two *Anabantiformes* fishes: *Anabas testudineus* (Bloch, 1792) and *Trichogaster fasciata* (Bloch & Schneider, 1801)

Andrographis paniculata

In vitro larvicidal, antioxidant, and DNA binding activity of biosynthesized zinc oxide nanoparticles conjugated with *Andrographis paniculata* aqueous extract

Angiogenesis

Molecular docking and cytotoxicity interactions of naringenin and its nano-structured lipid carriers in ER α positive breast cancer

Animal model

Moringa oleifera seeds attenuate benzene-induced alterations in lipid peroxidation and antioxidant enzymes in liver and kidney tissues of Wistar rats

Anopheles culicifacies

In vitro larvicidal, antioxidant, and DNA binding activity of biosynthesized zinc oxide nanoparticles conjugated with *Andrographis paniculata* aqueous extract

Antibacterial

Design, synthesis, characterization and *in vitro* evaluation of some novel thiol-substituted 1,3,4-oxadiazoles as GlmS inhibitors

Antioxidant and Anticancer Activity of *Rhynchosia rufescens* (Willd.) DC.

Anticancer activity

Evaluation of Antioxidant and Anticancer Activity of Amino Acid Derived Schiff Bases and their Metal Complexes – A Review

Anticancer potential of *Solanum lycopersicum* L. extract in human lung epithelial cancer cells A549

Antimicrobial activity

Synthesis, DFT and Molecular docking study of novel bis 1,2,3-triazole derivatives of 2-hydroxyquinoline-4-carboxylate as antimicrobial agents

Antimicrobial resistance (AMR)

The role of water molecules and its dynamics to the binding site of β -lactamase enzyme with respect to β -lactamase inhibitor

Anti-microbial

Cytotoxic and microbial studies of mixed metal complexes

Feather Protein Hydrolysate mediated synthesis of silver nanoparticles and assessment of anti-microbial potential of silver nanoparticle-treated silk cloth

Antineoplastic

601 Fabrication of phyco-functionalized zinc oxide nanoparticles and their *in vitro* evaluation against bacteria and cancer cell line

Antioxidant activity

611 Evaluation of Antioxidant and Anticancer Activity of Amino Acid Derived Schiff Bases and their Metal Complexes – A Review

In vitro larvicidal, antioxidant, and DNA binding activity of biosynthesized zinc oxide nanoparticles conjugated with *Andrographis paniculata* aqueous extract

141 Anticancer potential of *Solanum lycopersicum* L. extract in human lung epithelial cancer cells A549

Antioxidant Markers

26 *Clitoria ternatea* extract-loaded chitosan nanoparticles ameliorate diabetes and oxidative stress in diabetic rats

Antioxidant

611 Supplementation of *Madhuca longifolia* Seed oil augments diclofenac-induced organ toxicities: A biochemical and histopathological approach

Variation in morphological, biochemical and antioxidant properties of *Lilium polyphyllum*

148 Antioxidant mediated defensive potency of *Caesalpinia bonducella* nut on Acetaminophen-intoxicated spleen and cardiotoxicity: Implications on oxidative stress and tissue morphology in an *In vivo* model

APAP

857 Antioxidant mediated defensive potency of *Caesalpinia bonducella* nut on Acetaminophen-intoxicated spleen and cardiotoxicity: Implications on oxidative stress and tissue morphology in an *In vivo* model

76 Effect of selenium against doxorubicin-induced oxidative stress, inflammation, and apoptosis in the brain of rats: Role of TRPM2 channel

Apoptosis

729 Studies on the molecular mechanisms involved in apoptosis triggered by Canine Distemper Virus (CDV)

Anticancer potential of *Solanum lycopersicum* L. extract in human lung epithelial cancer cells A549

750 *Eleutherine bulbosa* bulb extract induces apoptosis and inhibits cell migration by down-regulating sonic hedgehog in human tongue cancer cells: An *in vitro* study

231 Regulatory role of TRPM7 cation channels on neuronal hypoxia model

581 'TRAIL' of targeted colorectal cancer therapy

Applications

255 Current trends and advances of Quorum sensing inhibitors and their biotechnological applications

Arachidonic Acid		Bond angle	
Allosteric modulation on specific gene mutated Vitamin D receptor by essential PUFAs and its distinct molecular effects on type 2 diabetes mellitus	339	ADMET, Pharmacokinetic and Docking properties of the fungal drug 2- (2, 4-difluorophenyl)-1, 3-bis (1, 2, 4-triazol-1-yl) propan-2-ol by using Quantum computational methods	58
Artemisinin combination therapy	331	Bond length	
Sequential analysis of erythrocyte aggregation in <i>P. falciparum</i> malaria with and without ASAQ therapy by optical signal and image analysis		ADMET, Pharmacokinetic and Docking properties of the fungal drug 2- (2, 4-difluorophenyl)-1, 3-bis (1, 2, 4-triazol-1-yl) propan-2-ol by using Quantum computational methods	58
<i>Artocarpus heterophyllus</i>			
Isolation, purification and characterization of a protease from the seeds of <i>Artocarpus heterophyllus</i>	690	Bonduc nut	
<i>Ascochyta rabiei</i>		Antioxidant mediated defensive potency of <i>Caesalpinia bonducella</i> nut on Acetaminophen-intoxicated spleen and cardiotoxicity: Implications on oxidative stress and tissue morphology in an <i>In vivo</i> model	297
STMS markers related to <i>Ascochyta</i> blight resistance in chickpea	196	Breast cancer	
Ascorbic acid		Cytotoxic and microbial studies of mixed metal complexes	231
Phytochemical evaluation and anti-psoriatic activity of the ethanolic extract of the leaves of <i>Thespesia populnea</i>	156	Administration of Curcumin, Betanin, and CoQ10 combined with nickel oxide, iron superoxide nanoparticles show preventive effects in breast cancer: Effect on apoptosis pathway and MiR-455 expression	790
Atomic Force Microscopy (AFM)		Bronchoalveolar fluids	
Urinary exosome isolation in fluorosis patients with early symptoms of nephrotoxicity	596	A microscopy study to distinguish the ultrastructural changes in the ciliated epithelium, type II pneumocytes, macrophages, and neutrophils of bronchoalveolar fluids after severe SARS-CoV-2 infection	545
Bacterial localization		Buccal tablets	
Upregulation of Psoriasinin Cholesteatoma associated with inflammation, bone destruction and severity of disease: Histo-cyto-chemical and ultrastructural studies	624	Formulation and evaluation of Buccal mucoadhesive tablets of diclofenac sodium using 23 factorial designs	122
Bactericide		CADD	
Fabrication of phyco-functionalized zinc oxide nanoparticles and their <i>in vitro</i> evaluation against bacteria and cancer cell line	770	Selective plant alkaloids as potential inhibitors of PARP in pancreatic cancer-An <i>in silico</i> study	555
BAPNA		Calcium signaling	
Isolation, purification and characterization of a protease from the seeds of <i>Artocarpus heterophyllus</i>	690	Downregulation of TRPM8 channels induce cell death in human DBTRG glioblastoma cells	385
Betanin		Regulatory role of TRPM7 cation channels on neuronal hypoxia model	836
Administration of Curcumin, Betanin, and CoQ10 combined with nickel oxide, iron superoxide nanoparticles show preventive effects in breast cancer: Effect on apoptosis pathway and MiR-455 expression	790	Cancer biology	
Binding free energy		Design and development of mutant EGFR inhibitors from a structural perspective	645
Some bis (3-(4-nitrophenyl)acrylamide derivatives: Synthesis, characterization, DFT, antioxidant, antimicrobial properties, molecular docking and molecular dynamics simulation studies	209	Cancer cells	
Biofilms		Studies on the molecular mechanisms involved in apoptosis triggered by Canine Distemper Virus (CDV)	525
Newly-discovered behaviour in the bacterial histone-like protein, HU	666	<i>Candida albicans</i>	
		Mutations in the ubiquitin gene of <i>Saccharomyces cerevisiae</i> accompanied by divergent use of CUG codon affect morphogenesis in <i>Candida albicans</i>	516

Capsazepine			
'TRAIL' of targeted colorectal cancer therapy	95	Challenge	
Carbamylation		Biofortification - A promising approach to enhance iron and zinc content in cowpea	877
Protein Carbamylation in Neurodegeneration and other age-related disorders	659	Chemical toxicity	
Carbapenemases		<i>Moringa oleifera</i> seeds attenuate benzene-induced alterations in lipid peroxidation and antioxidant enzymes in liver and kidney tissues of Wistar rats	26
Genotypic, phenotypic, and <i>in silico</i> analysis of carbapenem-resistant <i>Klebsiella pneumoniae</i>	673	Chemoresistance	
Carcinoma		miR-145-5p and miR-203a-5p overcome imatinib resistance in myelogenous leukemic cells through metabolic reprogramming	167
'TRAIL' of targeted colorectal cancer therapy	95	Chikungunya virus	
Cardiotoxicity		Computer-Aided vaccine design for selected positive-sense single stranded RNA viruses	281
Antioxidant mediated defensive potency of <i>Caesalpinia bonducella</i> nut on Acetaminophen-intoxicated spleen and cardiotoxicity: Implications on oxidative stress and tissue morphology in an <i>In vivo</i> model	297	Chlorogenic acid	
Catechin		Inhibitory activity of polyphenolic compound extracted from <i>P. betel</i> and <i>T. aestivum</i> with hepcidin for Iron deficiency anemia: An <i>in silico</i> approach	448
Inhibitory activity of polyphenolic compound extracted from <i>P. betel</i> and <i>T. aestivum</i> with hepcidin for Iron deficiency anemia: An <i>in silico</i> approach	448	Cholesteatoma	
CD spectra		Upregulation of Psoriasinin Cholesteatoma associated with inflammation, bone destruction and severity of disease: Histo-cyto-chemical and ultrastructural studies	624
Isolation, purification and characterization of a protease from the seeds of <i>Artocarpus heterophyllus</i>	690	<i>Cicer arietinum</i>	
<i>CDKN2B</i>		STMS markers related to Ascochyta blight resistance in chickpea	196
Down-regulation of miRNA 451a promotes many oncogenic signaling pathways in breast cancer patients	467	Ciliated epithelium	
<i>CDKN2D</i>		A microscopy study to distinguish the ultrastructural changes in the ciliated epithelium, type II pneumocytes, macrophages, and neutrophils of bronchoalveolar fluids after severe SARS-CoV-2 infection	545
Down-regulation of miRNA 451a promotes many oncogenic signaling pathways in breast cancer patients	467	cis peptide bond	
CDV		Solution structures and thermodynamics of cis-trans X-Pro conformers of a novel single disulfide conopeptide	710
Studies on the molecular mechanisms involved in apoptosis triggered by Canine Distemper Virus (CDV)	525	Cisplatin/Carboplatin	
Cell communication		Evaluation of Antioxidant and Anticancer Activity of Amino Acid Derived Schiff Bases and their Metal Complexes – A Review	437
Current trends and advances of Quorum sensing inhibitors and their biotechnological applications	255	Climbing-Perch	
Cell death		Ultrastructural variations of the sagittae in two <i>Anabantiformes</i> fishes: <i>Anabas testudineus</i> (Bloch, 1792) and <i>Trichogaster fasciata</i> (Bloch & Schneider, 1801)	601
Downregulation of TRPM8 channels induce cell death in human DBTRG glioblastoma cells	385	Coenzyme Q10	
Cell migration		Administration of Curcumin, Betanin, and CoQ10 combined with nickel oxide, iron superoxide nanoparticles show preventive effects in breast cancer: Effect on apoptosis pathway and MiR-455 expression	790
<i>Eleutherine bulbosa</i> bulb extract induces apoptosis and inhibits cell migration by down-regulating sonic hedgehog in human tongue cancer cells: An <i>in vitro</i> study	763		
Cervical cancer			
Mechanistic insights into the oncogenic partnership of hADA3 and HPVE6 -paving ways for improved cervical cancer therapy	651		

Coliform			
Novel primer designing and PCR-AFLP approach for an expeditious detection of coliforms in potable waters	65	Administration of Curcumin, Betanin, and CoQ10 combined with nickel oxide, iron superoxide nanoparticles show preventive effects in breast cancer: Effect on apoptosis pathway and MiR-455 expression	790
Combination		Cx43	
Improving anti-tumour activity with melatonin-stimulated mesenchymal stem cell-derived exosomes in metastatic triple-negative breast cancer	817	A comparative computational approach on the most deleterious missense variant in Connexin 43 protein and its potent inhibitor analysis	7
Computational toxicology		Cytokines	
Computational toxicology and food safety assessment of <i>Parkia timoriana</i> phytoconstituents using quantitative structure-activity relationship (QSAR) modeling approaches	896	Computational Insights into the interaction of Piperine with Immune Regulatory Proteins: A Docking Study	478
Conopeptide		Cytotoxicity	
Solution structures and thermodynamics of cis-trans X-Pro conformers of a novel single disulfide conopeptide	710	Molecular docking and cytotoxicity interactions of naringenin and its nano-structured lipid carriers in ER α positive breast cancer	141
Conotoxin		Cytotoxic and microbial studies of mixed metal complexes	231
Solution structures and thermodynamics of cis-trans X-Pro conformers of a novel single disulfide conopeptide	710	Dairy effluent treatment	
Conservation		Molecular characterization of phycobiliproteins producing Cyanobacteria by using nanopore sequencer isolated from dairy effluent	423
Variation in morphological, biochemical and antioxidant properties of <i>Lilium polyphyllum</i>	237	Databases	
Copper		Pharmacological and therapeutic potential of honey bee antimicrobial peptides	365
Cytotoxic and microbial studies of mixed metal complexes	231	DBTRG cells	
Co-precipitation		Downregulation of TRPM8 channels induce cell death in human DBTRG glioblastoma cells	385
Fabrication of phyco-functionalized zinc oxide nanoparticles and their <i>in vitro</i> evaluation against bacteria and cancer cell line	770	Decanoic acid	
Coronavirus		Determination of neuroprotective effects of medium chain fatty acids and their derivatives on mutant huntingtin aggregates, oxidative stress and ATP levels in HD150Q cell line model of Huntington's disease	741
Computational approach on <i>Moringa oleifera</i> as an inhibitor against SARS-CoV-2 structural proteins	941	Dengue virus	
Computer-Aided vaccine design for selected positive-sense single stranded RNA viruses	281	Computer-Aided vaccine design for selected positive-sense single stranded RNA viruses	281
Corrosion		DFT	
Preliminary studies on microbial induced corrosion of ferrous materials (EN-8 and 411143 steels) in the presence of <i>Acidithiobacillus ferrooxidans</i>	352	Synthesis, DFT and Molecular docking study of novel bis 1,2,3-triazole derivatives of 2-hydroxyquinoline-4-carboxylate as antimicrobial agents	729
COVID-19 and neurological manifestations		Diabetes mellitus	
Effects of Morpholino-mediated knockdown of the Angiotensin-converting enzyme 2 (ACE-2) on dopamine Neurogenesis and the Hypothalamic Pituitaryadrenal (HPA) Axis in Larval Zebrafish (<i>Danio rerio</i>)	414	<i>Clitoria ternatea</i> extract-loaded chitosan nanoparticles ameliorate diabetes and oxidative stress in diabetic rats	501
COX-2		Diabetes	
Computational Insights into the interaction of Piperine with Immune Regulatory Proteins: A Docking Study	478	Comparative study of anti-diabetic effects of insulin, epigenin and <i>Salvia mirzayanii</i> extract in streptozotocin-induced diabetic male rats	803

Diclofenac sodium		Doxorubicin	
Formulation and evaluation of Buccal mucoadhesive tablets of diclofenac sodium using 23 factorial designs	122	'TRAIL' of targeted colorectal cancer therapy	95
Diclofenac		Drug design	
Supplementation of <i>Madhuca longifolia</i> Seed oil augments diclofenac-induced organ toxicities: A biochemical and histopathological approach	186	Blind docking of 4-Amino-7-Chloroquinoline analogs as potential dengue virus protease inhibitor using CB Dock a web server	55
<i>Didymella rabiei</i>		Drug design	
STMS markers related to Ascochyta blight resistance in chickpea	196	Design and development of mutant EGFR inhibitors from a structural perspective	645
Disulphide bond		Drug release	
Solution structures and thermodynamics of cis-trans X-Pro conformers of a novel single disulfide conopeptide	710	Formulation and evaluation of Buccal mucoadhesive tablets of diclofenac sodium using 23 factorial designs	122
DNA binding domain		Drug targets	
FUSE binding protein1 interacts with Tumor Suppressor p53 and p53-Isoforms through their DNA Binding domain: Mapping the FBP1 binding site	828	Screening of phytochemicals for potential breast cancer targets BRCA1 and BARD1: A network pharmacology approach	393
DNA compaction		Duchenne Muscular Dystrophy	
Newly-discovered behaviour in the bacterial histone-like protein, HU	666	Mitigation of pathological parameters under Jagged1 influence in DMD knockout zebrafish and patient-derived myoblast cultures	681
DNA condensation		Dynamic light scattering	
Newly-discovered behaviour in the bacterial histone-like protein, HU	666	Isolation, purification and characterization of a protease from the seeds of <i>Artocarpus heterophyllus</i>	690
DNA-binding protein		E6	
Newly-discovered behaviour in the bacterial histone-like protein, HU	666	Mechanistic insights into the oncogenic partnership of hADA3 and HPVE6 -paving ways for improved cervical cancer therapy	651
Docking		Efficiency	
The role of water molecules and its dynamics to the binding site of β -lactamase enzyme with respect to β -lactamase inhibitor	750	Construction of hybrid solar cells exploiting the interaction of TiO ₂ /Photosystem I complexes	567
Docosahexaenoic Acid		Eicosapentaenoic Acid	
Allosteric modulation on specific gene mutated Vitamin D receptor by essential PUFAs and its distinct molecular effects on type 2 diabetes mellitus	339	Allosteric modulation on specific gene mutated Vitamin D receptor by essential PUFAs and its distinct molecular effects on type 2 diabetes mellitus	339
Dopamine neurogenesis		Electrophoresis	
Effects of Morpholino-mediated knockdown of the Angiotensin-converting enzyme 2 (ACE-2) on dopamine Neurogenesis and the Hypothalamic Pituitaryadrenal (HPA) Axis in Larval Zebrafish (<i>Danio rerio</i>)	414	Simultaneous detection of thirteen exons of dystrophin gene by optimized multiplex PCR assay to screen Duchenne/Becker muscular dystrophy	31
Dopaminergic neurons		Electrophysiology	
Effect of co-expression of alpha-synuclein and leucine-rich repeat kinase 2 on the hallmark features of Parkinson's disease in <i>Drosophila melanogaster</i>	455	A study on variation in spatial voltage distribution pattern across tissue layers between non-excitabile plant and excitable plant	307
Doxorubicin		<i>Eleutherine bulbosa</i>	
Effect of selenium against doxorubicin-induced oxidative stress, inflammation, and apoptosis in the brain of rats: Role of TRPM2 channel	177	<i>Eleutherine bulbosa</i> bulb extract induces apoptosis and inhibits cell migration by down-regulating sonic hedgehog in human tongue cancer cells: An <i>in vitro</i> study	763

Enzymes			
<i>Moringa oleifera</i> seeds attenuate benzene-induced alterations in lipid peroxidation and antioxidant enzymes in liver and kidney tissues of Wistar rats	26	Computational toxicology and food safety assessment of <i>Parkia timoriana</i> phytoconstituents using quantitative structure-activity relationship (QSAR) modeling approaches	896
Epigenin		Fortification	
Comparative study of anti-diabetic effects of insulin, epigenin and <i>Salvia mirzayanii</i> extract in streptozotocin-induced diabetic male rats	803	Biofortification - A promising approach to enhance iron and zinc content in cowpea	877
Epitope prediction		FOXO signaling	
Computer-Aided vaccine design for selected positive-sense single stranded RNA viruses	281	Down-regulation of miRNA 451a promotes many oncogenic signaling pathways in breast cancer patients	467
Essential oil composition		Free radical scavenging	
Antioxidant and Anticancer Activity of <i>Rhynchosia rufescens</i> (Willd.) DC.	857	Antioxidant mediated defensive potency of <i>Caesalpinia bonducella</i> nut on Acetaminophen-intoxicated spleen and cardiotoxicity: Implications on oxidative stress and tissue morphology in an <i>In vivo</i> model	297
Exosome		Fuse Binding Protein 1 (FBP1)	
Improving anti-tumour activity with melatonin-stimulated mesenchymal stem cell-derived exosomes in metastatic triple-negative breast cancer	817	FUSE binding protein1 interacts with Tumor Suppressor p53 and p53-Isoforms through their DNA Binding domain: Mapping the FBP1 binding site	828
Urinary exosome isolation in fluorosis patients with early symptoms of nephrotoxicity	596	G6Pase	
FCZ		Comparative study of anti-diabetic effects of insulin, epigenin and <i>Salvia mirzayanii</i> extract in streptozotocin-induced diabetic male rats	803
ADMET, Pharmacokinetic and Docking properties of the fungal drug 2- (2, 4-difluorophenyl)-1, 3-bis (1, 2, 4-triazol-1-yl) propan-2-ol by using Quantum computational methods	58	GAL4-UAS system	
Feather Protein Hydrolysate (FPH)		Effect of co-expression of alpha-synuclein and leucine-rich repeat kinase 2 on the hallmark features of Parkinson's disease in <i>Drosophila melanogaster</i>	455
Feather Protein Hydrolysate mediated synthesis of silver nanoparticles and assessment of anti-microbial potential of silver nanoparticle-treated silk cloth	581	Gastrointestinal toxicity	
Ferroportin		Supplementation of <i>Madhuca longifolia</i> Seed oil augments diclofenac-induced organ toxicities: A biochemical and histopathological approach	186
Inhibitory activity of polyphenolic compound extracted from <i>P. betel</i> and <i>T. aestivum</i> with hepcidin for Iron deficiency anemia: An <i>in silico</i> approach	448	GC-MS	
<i>Ficus religiosa</i>		Computational toxicology and food safety assessment of <i>Parkia timoriana</i> phytoconstituents using quantitative structure-activity relationship (QSAR) modeling approaches	896
Identification of phytoconstituents for combating Polycystic ovarian syndrome through <i>in silico</i> techniques	99	Gene enrichment analysis	
Flavonoid		Screening of phytochemicals for potential breast cancer targets BRCA1 and BARD1: A network pharmacology approach	393
Antioxidant and Anticancer Activity of <i>Rhynchosia rufescens</i> (Willd.) DC.	857	Gene expression	
Fluorosis		<i>Clitoria ternatea</i> extract-loaded chitosan nanoparticles ameliorate diabetes and oxidative stress in diabetic rats	501
Urinary exosome isolation in fluorosis patients with early symptoms of nephrotoxicity	596	Genetic synergism	
Flux balance analysis (FBA)		Effect of co-expression of alpha-synuclein and leucine-rich repeat kinase 2 on the hallmark features of Parkinson's disease in <i>Drosophila melanogaster</i>	455
miR-145-5p and miR-203a-5p overcome imatinib resistance in myelogenous leukemic cells through metabolic reprogramming	167		

Genomic editing		Health care drug development	
Genomics and transgenic approaches for sheath blight resistance development in rice	886	ADMET, Pharmacokinetic and Docking properties of the fungal drug 2- (2, 4-difluorophenyl)-1, 3-bis (1, 2, 4-triazol-1-yl) propan-2-ol by using Quantum computational methods	58
Genomics		Hepatitis C virus	
Genomics and transgenic approaches for sheath blight resistance development in rice	886	Computer-Aided vaccine design for selected positive-sense single stranded RNA viruses	281
Glia		Hepatocellular carcinoma	
Effect of co-expression of alpha-synuclein and leucine-rich repeat kinase 2 on the hallmark features of Parkinson's disease in <i>Drosophila melanogaster</i>	455	Association between the organic cation transporter 3 methylation and hepatocellular carcinoma	224
Glioblastoma		Hepatotoxicity	
Downregulation of TRPM8 channels induce cell death in human DBTRG glioblastoma cells	385	Supplementation of <i>Madhuca longifolia</i> Seed oil augments diclofenac-induced organ toxicities: A biochemical and histopathological approach	186
GlmS		Hepcidin	
Design, synthesis, characterization and <i>in vitro</i> evaluation of some novel thiol-substituted 1,3,4-oxadiazoles as GlmS inhibitors	148	Inhibitory activity of polyphenolic compound extracted from <i>P. betel</i> and <i>T. aestivum</i> with hepcidin for Iron deficiency anemia: An <i>in silico</i> approach	448
GLUT4		Herbs	
Comparative study of anti-diabetic effects of insulin, epigenin and <i>Salvia mirzayanii</i> extract in streptozotocin-induced diabetic male rats	803	Role of herbs at the crossroads of metabolic syndrome and mental illness	129
Glyceryl triacetate		Histo-cyto-chemistry	
Determination of neuroprotective effects of medium chain fatty acids and their derivatives on mutant huntingtin aggregates, oxidative stress and ATP levels in HD150Q cell line model of Huntington's disease	741	Upregulation of Psoriasinin Cholesteatoma associated with inflammation, bone destruction and severity of disease: Histo-cyto-chemical and ultrastructural studies	624
Golden retriever muscular dystrophy (GRMD) model		Histone-like protein	
Mitigation of pathological parameters under Jagged1 influence in DMD knockout zebrafish and patient-derived myoblast cultures	681	Newly-discovered behaviour in the bacterial histone-like protein, HU	666
Habitat		Histopathology	
Variation in morphological, biochemical and antioxidant properties of <i>Lilium polyphyllum</i>	237	<i>Moringa oleifera</i> seeds attenuate benzene-induced alterations in lipid peroxidation and antioxidant enzymes in liver and kidney tissues of Wistar rats	26
hADA3		Homology modeling	
Mechanistic insights into the oncogenic partnership of hADA3 and HPVE6 -paving ways for improved cervical cancer therapy	651	<i>In silico</i> structural elucidation of novel lipase encoded by LipHim1 gene and it's activation by Tween 60	485
HCC biomarker		Homology modelling	
Assessment of YME1L and mitofusin2 as a possible diagnostic and/or therapeutic target in hepatocellular carcinoma	43	Binding interaction of laccases from <i>Bacillus Subtilis</i> after industrial dyes exposure: Molecular docking and molecular dynamics simulation studies	320
HCT-116 cell lines		Honey bees	
Antioxidant and Anticancer Activity of <i>Rhynchosia rufescens</i> (Willd.) DC.	857	Pharmacological and therapeutic potential of honey bee antimicrobial peptides	365
HCT-15 cell line		Host-pathogen interaction	
Studies on the molecular mechanisms involved in apoptosis triggered by Canine Distemper Virus (CDV)	525	Genomics and transgenic approaches for sheath blight resistance development in rice	886

HPA axis		Jagged1 peptide	
Effects of Morpholino-mediated knockdown of the Angiotensin-converting enzyme 2 (ACE-2) on dopamine Neurogenesis and the Hypothalamic Pituitaryadrenal (HPA) Axis in Larval Zebrafish (<i>Danio rerio</i>)	414	Mitigation of pathological parameters under Jagged1 influence in DMD knockout zebrafish and patient-derived myoblast cultures	681
HPV		K562	
Mechanistic insights into the oncogenic partnership of hADA3 and HPVE6 -paving ways for improved cervical cancer therapy	651	miR-145-5p and miR-203a-5p overcome imatinib resistance in myelogenous leukemic cells through metabolic reprogramming	167
HU		<i>Kala4</i>	
Newly-discovered behaviour in the bacterial histone-like protein, HU	666	Mapping and validating quantitative trait loci (QTL) for anthocyanin-related genes, coupled with marker analysis for pericarp pigmentation and yield traits in a black and white rice cross	919
Huntington's disease		<i>Kappaphycus alvarezii</i>	
Determination of neuroprotective effects of medium chain fatty acids and their derivatives on mutant huntingtin aggregates, oxidative stress and ATP levels in HD150Q cell line model of Huntington's disease	741	Fabrication of phyco-functionalized zinc oxide nanoparticles and their <i>in vitro</i> evaluation against bacteria and cancer cell line	770
Hyphae		Kinase inhibitors	
Mutations in the ubiquitin gene of <i>Saccharomyces cerevisiae</i> accompanied by divergent use of CUG codon affect morphogenesis in <i>Candida albicans</i>	516	Design and development of mutant EGFR inhibitors from a structural perspective	645
Hypoxia		Kinesin Eg5	
Regulatory role of TRPM7 cation channels on neuronal hypoxia model	836	Polyphenol MHQP as an allosteric inhibitor of Kinesin-5: Cease the molecular catwalk of "Drunken Sailor"	703
Immune booster		<i>Klebsiella pneumoniae</i>	
Computational approach on <i>Moringa oleifera</i> as an inhibitor against SARS-CoV-2 structural proteins	941	Genotypic, phenotypic, and <i>in silico</i> analysis of carbapenem-resistant <i>Klebsiella pneumoniae</i>	673
Immunodulatories		L214P	
The role of expressed T-cells cytokines mRNAs from endometrial tissue in patients with unexplained infertility	406	A comparative computational approach on the most deleterious missense variant in Connexin 43 protein and its potent inhibitor analysis	7
Immunoinformatics		Labyrinth-Perch	
Computer-Aided vaccine design for selected positive-sense single stranded RNA viruses	281	Ultrastructural variations of the sagittae in two <i>Anabantiformes</i> fishes: <i>Anabas testudineus</i> (Bloch, 1792) and <i>Trichogaster fasciata</i> (Bloch & Schneider, 1801)	601
<i>In silico</i> studies		Laccase	
Identification of phytoconstituents for combating Polycystic ovarian syndrome through <i>in silico</i> techniques	99	Binding interaction of laccases from <i>Bacillus Subtilis</i> after industrial dyes exposure: Molecular docking and molecular dynamics simulation studies	320
Infection		Lanosterol	
Studies on the molecular mechanisms involved in apoptosis triggered by Canine Distemper Virus (CDV)	525	Identification of phytoconstituents for combating Polycystic ovarian syndrome through <i>in silico</i> techniques	99
Insulin		Larvicidal	
Comparative study of anti-diabetic effects of insulin, epigenin and <i>Salvia mirzayanii</i> extract in streptozotocin-induced diabetic male rats	803	<i>In vitro</i> larvicidal, antioxidant, and DNA binding activity of biosynthesized zinc oxide nanoparticles conjugated with <i>Andrographis paniculata</i> aqueous extract	611
IPA			
Studies on the molecular mechanisms involved in apoptosis triggered by Canine Distemper Virus (CDV)	525		

LC-MS/MS			
Proteomic analysis of <i>substantia nigra</i> proteins in STZ-Induced Type II diabetic rats: A possible link with Parkinson's disease	779	Liver enzymes	
Computational toxicology and food safety assessment of <i>Parkia timoriana</i> phytoconstituents using quantitative structure-activity relationship (QSAR) modeling approaches	896	<i>Clitoria ternatea</i> extract-loaded chitosan nanoparticles ameliorate diabetes and oxidative stress in diabetic rats	501
LDH assay	76	Macrophages	
Anticancer potential of <i>Solanum lycopersicum</i> L. extract in human lung epithelial cancer cells A549		A microscopy study to distinguish the ultrastructural changes in the ciliated epithelium, type II pneumocytes, macrophages, and neutrophils of bronchoalveolar fluids after severe SARS-CoV-2 infection	545
Leaky gene expression	666	<i>Madhuca longifolia</i> seed oil	
Newly-discovered behaviour in the bacterial histone-like protein, HU		Supplementation of <i>Madhuca longifolia</i> Seed oil augments diclofenac-induced organ toxicities: A biochemical and histopathological approach	186
LED Laser aggregometer		Malnutrition	
Sequential analysis of erythrocyte aggregation in <i>P. falciparum</i> malaria with and without ASAQ therapy by optical signal and image analysis	331	Biofortification - A promising approach to enhance iron and zinc content in cowpea	877
Ligand		Manipur black rice (<i>Chakhao poireiton</i>)	
Molecular docking and cytotoxicity interactions of naringenin and its nano-structured lipid carriers in ER α positive breast cancer	141	Mapping and validating quantitative trait loci (QTL) for anthocyanin-related genes, coupled with marker analysis for pericarp pigmentation and yield traits in a black and white rice cross	919
Light-harvesting complexes (LHCs)		Mannitol	
Construction of hybrid solar cells exploiting the interaction of TiO ₂ /Photosystem I complexes	567	Molecular docking and cytotoxicity interactions of naringenin and its nano-structured lipid carriers in ER α positive breast cancer	141
Linear polarization		Matrix metalloproteinase	
Preliminary studies on microbial induced corrosion of ferrous materials (EN-8 and 411143 steels) in the presence of <i>Acidithiobacillus ferrooxidans</i>	352	Assessment of YME1L and mitofusin2 as a possible diagnostic and/or therapeutic target in hepatocellular carcinoma	43
Lipase		Medicinal chemistry	
<i>In silico</i> structural elucidation of novel lipase encoded by LipHim1 gene and its activation by Tween 60	485	Design and development of mutant EGFR inhibitors from a structural perspective	645
LipHim1 gene		Medicinal plant	
<i>In silico</i> structural elucidation of novel lipase encoded by LipHim1 gene and its activation by Tween 60	485	Variation in morphological, biochemical and antioxidant properties of <i>Lilium polyphyllum</i>	237
Lipid peroxidation		Screening of phytochemicals for potential breast cancer targets BRCA1 and BARD1: A network pharmacology approach	393
<i>Moringa oleifera</i> seeds attenuate benzene-induced alterations in lipid peroxidation and antioxidant enzymes in liver and kidney tissues of Wistar rats	26	Melatonin	
Liquid-liquid phase separation		Improving anti-tumour activity with melatonin-stimulated mesenchymal stem cell-derived exosomes in metastatic triple-negative breast cancer	817
Newly-discovered behaviour in the bacterial histone-like protein, HU	666	Mental illness	
Live/dead dual staining		Role of herbs at the crossroads of metabolic syndrome and mental illness	129
Anticancer potential of <i>Solanum lycopersicum</i> L. extract in human lung epithelial cancer cells A549	76	Metabolic disorders	
		Role of herbs at the crossroads of metabolic syndrome and mental illness	129

Metastasis			
Molecular docking and cytotoxicity interactions of naringenin and its nano-structured lipid carriers in ER α positive breast cancer	141		
Methyl orange			
Binding interaction of laccases from <i>Bacillus Subtilis</i> after industrial dyes exposure: Molecular docking and molecular dynamics simulation studies	320		
Methylation			
Association between the organic cation transporter 3 methylation and hepatocellular carcinoma	224		
Mets			
Role of herbs at the crossroads of metabolic syndrome and mental illness	129		
MHQP			
Polyphenol MHQP as an allosteric inhibitor of Kinesin-5: Cease the molecular catwalk of “Drunken Sailor”	703		
Microbes			
Preliminary studies on microbial induced corrosion of ferrous materials (EN-8 and 411143 steels) in the presence of <i>Acidithiobacillus ferrooxidans</i>	352		
Micronutrients			
Biofortification - A promising approach to enhance iron and zinc content in cowpea	877		
microRNA451a			
Down-regulation of miRNA 451a promotes many oncogenic signaling pathways in breast cancer patients	467		
<i>Mimosa pudica</i>			
A study on variation in spatial voltage distribution pattern across tissue layers between non-excitabile plant and excitable plant	307		
Minimum inhibitory concentration (MIC)			
Genotypic, phenotypic, and <i>in silico</i> analysis of carbapenem-resistant <i>Klebsiella pneumoniae</i>	673		
miRNA			
Administration of Curcumin, Betanin, and CoQ10 combined with nickel oxide, iron superoxide nanoparticles show preventive effects in breast cancer: Effect on apoptosis pathway and MiR-455 expression	790		
miRNAs			
miR-145-5p and miR-203a-5p overcome imatinib resistance in myelogenous leukemic cells through metabolic reprogramming	167		
Mitochondrial dynamics			
Assessment of YME1L and mitofusin2 as a possible diagnostic and/or therapeutic target in hepatocellular carcinoma	43		
		Mitochondrial dysfunction	
		Determination of neuroprotective effects of medium chain fatty acids and their derivatives on mutant huntingtin aggregates, oxidative stress and ATP levels in HD150Q cell line model of Huntington’s disease	741
		Mitochondrial fusion	
		Assessment of YME1L and mitofusin2 as a possible diagnostic and/or therapeutic target in hepatocellular carcinoma	43
		MM-PBSA	
		Some bis (3-(4-nitrophenyl)acrylamide derivatives: Synthesis, characterization, DFT, antioxidant, antimicrobial properties, molecular docking and molecular dynamics simulation studies	209
		Molecular breeding	
		STMS markers related to Ascochyta blight resistance in chickpea	196
		Molecular docking	
		Network pharmacology and molecular docking study of the active ingredients in Saptasaram kashayam for the treatment of Polycystic ovary syndrome	108
		Design, synthesis, characterization and <i>in vitro</i> evaluation of some novel thiol-substituted 1,3,4-oxadiazoles as GlmS inhibitors	148
		Binding interaction of laccases from <i>Bacillus Subtilis</i> after industrial dyes exposure: Molecular docking and molecular dynamics simulation studies	320
		<i>In silico</i> structural elucidation of novel lipase encoded by LipHim1 gene and it’s activation by Tween 60	485
		Selective plant alkaloids as potential inhibitors of PARP in pancreatic cancer-An <i>in silico</i> study	555
		Genotypic, phenotypic, and <i>in silico</i> analysis of carbapenem-resistant <i>Klebsiella pneumoniae</i>	673
		A comparative computational approach on the most deleterious missense variant in Connexin 43 protein and its potent inhibitor analysis	7
		Synthesis, DFT and Molecular docking study of novel bis 1,2,3-triazole derivatives of 2-hydroxyquinoline-4-carboxylate as antimicrobial agents	729
		Computational approach on <i>Moringa oleifera</i> as an inhibitor against SARS-CoV-2 structural proteins	941
		Molecular dynamic simulations	
		<i>In silico</i> structural elucidation of novel lipase encoded by LipHim1 gene and it’s activation by Tween 60	485
		Polyphenol MHQP as an allosteric inhibitor of Kinesin-5: Cease the molecular catwalk of “Drunken Sailor”	703

Binding interaction of laccases from <i>Bacillus Subtilis</i> after industrial dyes exposure: Molecular docking and molecular dynamics simulation studies	320	Mutant huntingtin aggregates	
Molecular marker		Determination of neuroprotective effects of medium chain fatty acids and their derivatives on mutant huntingtin aggregates, oxidative stress and ATP levels in HD150Q cell line model of Huntington's disease	741
Novel primer designing and PCR-AFLP approach for an expeditious detection of coliforms in potable waters	65	Myotubes	
STMS markers related to Ascochyta blight resistance in chickpea	196	Mitigation of pathological parameters under Jagged1 influence in DMD knockout zebrafish and patient-derived myoblast cultures	681
Molecular targets		Nano-agent	
Selective plant alkaloids as potential inhibitors of PARP in pancreatic cancer-An <i>in silico</i> study	555	Fabrication of phyco-functionalized zinc oxide nanoparticles and their <i>in vitro</i> evaluation against bacteria and cancer cell line	770
<i>Moringa</i> seeds		Nano-drug delivery	
<i>Moringa oleifera</i> seeds attenuate benzene-induced alterations in lipid peroxidation and antioxidant enzymes in liver and kidney tissues of Wistar rats	26	<i>Clitoria ternatea</i> extract-loaded chitosan nanoparticles ameliorate diabetes and oxidative stress in diabetic rats	501
Moringa Tea		Nanoparticles	
Computational approach on <i>Moringa oleifera</i> as an inhibitor against SARS-CoV-2 structural proteins	941	<i>In vitro</i> larvicidal, antioxidant, and DNA binding activity of biosynthesized zinc oxide nanoparticles conjugated with <i>Andrographis paniculata</i> aqueous extract	611
Morphogenesis		Administration of Curcumin, Betanin, and CoQ10 combined with nickel oxide, iron superoxide nanoparticles show preventive effects in breast cancer: Effect on apoptosis pathway and MiR-455 expression	790
Mutations in the ubiquitin gene of <i>Saccharomyces cerevisiae</i> accompanied by divergent use of CUG codon affect morphogenesis in <i>Candida albicans</i>	516	Necrosis	
Mouse tail model		'TRAIL' of targeted colorectal cancer therapy	95
Phytochemical evaluation and anti-psoriatic activity of the ethanolic extract of the leaves of <i>Thespesia populnea</i>	156	Network pharmacology	
mRNA		Network pharmacology and molecular docking study of the active ingredients in Saptasaram kashayam for the treatment of Polycystic ovary syndrome	108
The role of expressed T-cells cytokines mRNAs from endometrial tissue in patients with unexplained infertility	406	Screening of phytochemicals for potential breast cancer targets BRCA1 and BARD1: A network pharmacology approach	393
MTT assay		Neurodegenerative diseases	
Anticancer potential of <i>Solanum lycopersicum</i> L. extract in human lung epithelial cancer cells A549	76	Protein Carbamylation in Neurodegeneration and other age-related disorders	659
Mucoadhesion		Neutrophils	
Formulation and evaluation of Buccal mucoadhesive tablets of diclofenac sodium using 23 factorial designs	122	A microscopy study to distinguish the ultrastructural changes in the ciliated epithelium, type II pneumocytes, macrophages, and neutrophils of bronchoalveolar fluids after severe SARS-CoV-2 infection	545
Mucoadhesive tablets		Nucleoid associated proteins (NAPs)	
Formulation and evaluation of Buccal mucoadhesive tablets of diclofenac sodium using 23 factorial designs	122	Newly-discovered behaviour in the bacterial histone-like protein, HU	666
Multiplex PCR			
Simultaneous detection of thirteen exons of dystrophin gene by optimized multiplex PCR assay to screen Duchenne/Becker muscular dystrophy	31		

Nutritional Security		Pant lobia-1-5	
Biofortification - A promising approach to enhance iron and zinc content in cowpea	877	Biofortification - A promising approach to enhance iron and zinc content in cowpea	877
Oncometabolites		Parasitemia aggregation Parameters	
miR-145-5p and miR-203a-5p overcome imatinib resistance in myelogenous leukemic cells through metabolic reprogramming	167	Sequential analysis of erythrocyte aggregation in <i>P. falciparum</i> malaria with and without ASAQ therapy by optical signal and image analysis	331
Optimization		<i>Parkia timoriana</i>	
Simultaneous detection of thirteen exons of dystrophin gene by optimized multiplex PCR assay to screen Duchenne/Becker muscular dystrophy	31	Computational toxicology and food safety assessment of <i>Parkia timoriana</i> phytoconstituents using quantitative structure-activity relationship (QSAR) modeling approaches	896
Organic cation transporters 3		PARP	
Association between the organic cation transporter 3 methylation and hepatocellular carcinoma	224	Selective plant alkaloids as potential inhibitors of PARP in pancreatic cancer-An <i>in silico</i> study	555
Orthokeratosis		Pathogen	
Phytochemical evaluation and anti-psoriatic activity of the ethanolic extract of the leaves of <i>Thespesia populnea</i>	156	Current trends and advances of Quorum sensing inhibitors and their biotechnological applications	255
<i>Oscillatoria</i> species		PEPCK	
Molecular characterization of phycobiliproteins producing Cyanobacteria by using nanopore sequencer isolated from dairy effluent	423	Comparative study of anti-diabetic effects of insulin, epigenin and <i>Salvia mirzayanii</i> extract in streptozotocin-induced diabetic male rats	803
Oxadiazole		Peptide	
Design, synthesis, characterization and <i>in vitro</i> evaluation of some novel thiol-substituted 1,3,4-oxadiazoles as GlmS inhibitors	148	Mechanistic insights into the oncogenic partnership of hADA3 and HPVE6 -paving ways for improved cervical cancer therapy	651
Oxidative stress		Phenolic	
Effect of selenium against doxorubicin-induced oxidative stress, inflammation, and apoptosis in the brain of rats: Role of TRPM2 channel	177	Antioxidant and Anticancer Activity of <i>Rhynchosia rufescens</i> (Willd.) DC.	857
Determination of neuroprotective effects of medium chain fatty acids and their derivatives on mutant huntingtin aggregates, oxidative stress and ATP levels in HD150Q cell line model of Huntington's disease	741	Phloem	
Proteomic analysis of <i>Substantia nigra</i> proteins in STZ-Induced Type II diabetic rats: A possible link with Parkinson's disease	779	A study on variation in spatial voltage distribution pattern across tissue layers between non-excitabile plant and excitable plant	307
<i>P. falciparum</i> malaria		Photosynthesis	
Sequential analysis of erythrocyte aggregation in <i>P. falciparum</i> malaria with and without ASAQ therapy by optical signal and image analysis	331	Construction of hybrid solar cells exploiting the interaction of TiO ₂ /Photosystem I complexes	567
p53		Photosystem	
FUSE binding protein1 interacts with Tumor Suppressor p53 and p53-Isoforms through their DNA Binding domain: Mapping the FBP1 binding site	828	Construction of hybrid solar cells exploiting the interaction of TiO ₂ /Photosystem I complexes	567
Pancytopenia		Physicochemical indices	
Aplastic anemia patients with severe COVID-19 showed abnormal ultrastructure features on type II pneumocytes of lungs	589	Simultaneous detection of thirteen exons of dystrophin gene by optimized multiplex PCR assay to screen Duchenne/Becker muscular dystrophy	31
		Screening of phytochemicals for potential breast cancer targets BRCA1 and BARD1: A network pharmacology approach	393
		ADMET, Pharmacokinetic and Docking properties of the fungal drug 2- (2, 4-difluorophenyl)-1, 3-bis (1, 2, 4-triazol-1-yl) propan-2-ol by using Quantum computational methods	58
		Phytochemicals	
		Computational approach on <i>Moringa oleifera</i> as an inhibitor against SARS-CoV-2 structural proteins	941

Phytoestrogens			
Molecular docking and cytotoxicity interactions of naringenin and its nano-structured lipid carriers in ER α positive breast cancer	141	Newly-discovered behaviour in the bacterial histone-like protein, HU	666
Piperine		Protein kinase	
Computational Insights into the interaction of Piperine with Immune Regulatory Proteins: A Docking Study	478	'TRAIL' of targeted colorectal cancer therapy	95
Plant alkaloids		Proteins Interaction	
Selective plant alkaloids as potential inhibitors of PARP in pancreatic cancer-An <i>in silico</i> study	555	Proteomic analysis of <i>substantia nigra</i> proteins in STZ-Induced Type II diabetic rats: A possible link with Parkinson's disease	779
Poly herbal formulation		Proteins	
Network pharmacology and molecular docking study of the active ingredients in Saptasaram kashayam for the treatment of Polycystic ovary syndrome	108	Construction of hybrid solar cells exploiting the interaction of TiO ₂ /Photosystem I complexes	567
Polycystic ovarian syndrome		Proteinuria	
Identification of phytoconstituents for combating Polycystic ovarian syndrome through <i>in silico</i> techniques	99	Urinary exosome isolation in fluorosis patients with early symptoms of nephrotoxicity	596
Network pharmacology and molecular docking study of the active ingredients in Saptasaram kashayam for the treatment of Polycystic ovary syndrome	108	Proteomics	
Polypyrrole		Proteomic analysis of <i>substantia nigra</i> proteins in STZ-Induced Type II diabetic rats: A possible link with Parkinson's disease	779
Construction of hybrid solar cells exploiting the interaction of TiO ₂ /Photosystem I complexes	567	<i>PSMB8</i>	
Polysorbate-60		Down-regulation of miRNA 451a promotes many oncogenic signaling pathways in breast cancer patients	467
<i>In silico</i> structural elucidation of novel lipase encoded by LipHim1 gene and its activation by Tween 60	485	Psoriasis	
Polyunsaturated fatty acids		Upregulation of Psoriasin in Cholesteatoma associated with inflammation, bone destruction and severity of disease: Histo-cyto-chemical and ultrastructural studies	624
Allosteric modulation on specific gene mutated Vitamin D receptor by essential PUFAs and its distinct molecular effects on type 2 diabetes mellitus	339	Phytochemical evaluation and anti-psoriatic activity of the ethanolic extract of the leaves of <i>Thespesia populnea</i>	156
Post-translational modifications		q-PCR	
Protein Carbamylation in Neurodegeneration and other age-related disorders	659	The role of expressed T-cells cytokines mRNAs from endometrial tissue in patients with unexplained infertility	406
Primer design		QS inhibitors	
Novel primer designing and PCR-AFLP approach for an expeditious detection of coliforms in potable waters	65	Current trends and advances of Quorum sensing inhibitors and their biotechnological applications	255
Proteases		QS	
Isolation, purification and characterization of a protease from the seeds of <i>Artocarpus heterophyllus</i>	690	Current trends and advances of Quorum sensing inhibitors and their biotechnological applications	255
Protein engineering		QTL mapping	
Newly-discovered behaviour in the bacterial histone-like protein, HU	666	Mapping and validating quantitative trait loci (QTL) for anthocyanin-related genes, coupled with marker analysis for pericarp pigmentation and yield traits in a black and white rice cross	919
		Quantitative real-time PCR	
		Association between the organic cation transporter 3 methylation and hepatocellular carcinoma	224

Quantitative structure-activity relationship modeling			
Computational toxicology and food safety assessment of <i>Parkia timoriana</i> phytoconstituents using quantitative structure-activity relationship (QSAR) modeling approaches	896		
Quinoline			
Blind docking of 4-Amino-7-Chloroquinoline analogs as potential dengue virus protease inhibitor using CB Dock a web server	55	<i>Salvia mirzayanii</i>	
Synthesis, DFT and Molecular docking study of novel bis 1,2,3-triazole derivatives of 2-hydroxyquinoline-4-carboxylate as antimicrobial agents	729	Comparative study of anti-diabetic effects of insulin, epigenin and <i>Salvia mirzayanii</i> extract in streptozotocin-induced diabetic male rats	803
		Saptasaram kashayam	
		Network pharmacology and molecular docking study of the active ingredients in Saptasaram kashayam for the treatment of Polycystic ovary syndrome	108
		SARS-CoV-2	
		A microscopy study to distinguish the ultrastructural changes in the ciliated epithelium, type II pneumocytes, macrophages, and neutrophils of bronchoalveolar fluids after severe SARS-CoV-2 infection	545
<i>RAB5A</i>		Selective Estrogen Receptor	
Down-regulation of miRNA 451a promotes many oncogenic signaling pathways in breast cancer patients	467	Generating a potent inhibitor against MCF7 breast cancer cell through artificial intelligence based virtual screening and molecular docking studies	844
Release kinetics		Selenium	
Formulation and evaluation of Buccal mucoadhesive tablets of diclofenac sodium using 23 factorial designs	122	Effect of selenium against doxorubicin-induced oxidative stress, inflammation, and apoptosis in the brain of rats: Role of TRPM2 channel	177
Renal impairments		Serine endopeptidase	
Urinary exosome isolation in fluorosis patients with early symptoms of nephrotoxicity	596	Isolation, purification and characterization of a protease from the seeds of <i>Artocarpus heterophyllus</i>	690
Renal toxicity		Sesamin	
Supplementation of <i>Madhuca longifolia</i> Seed oil augments diclofenac-induced organ toxicities: A biochemical and histopathological approach	186	Identification of phytoconstituents for combating Polycystic ovarian syndrome through <i>in silico</i> techniques	99
Restriction enzymes		<i>Sesamum indicum</i>	
Novel primer designing and PCR-AFLP approach for an expeditious detection of coliforms in potable waters	65	Identification of phytoconstituents for combating Polycystic ovarian syndrome through <i>in silico</i> techniques	99
<i>Rhizoctonia solani</i>		Sheath blight	
Genomics and transgenic approaches for sheath blight resistance development in rice	886	Genomics and transgenic approaches for sheath blight resistance development in rice	886
Risk assessment		SH-SY5Y cells	
Computational toxicology and food safety assessment of <i>Parkia timoriana</i> phytoconstituents using quantitative structure-activity relationship (QSAR) modeling approaches	896	Regulatory role of TRPM7 cation channels on neuronal hypoxia model	836
RNAi		Signaling pathways	
Genomics and transgenic approaches for sheath blight resistance development in rice	886	Pharmacological and therapeutic potential of honey bee antimicrobial peptides	365
		Proteomic analysis of <i>substantia nigra</i> proteins in STZ-Induced Type II diabetic rats: A possible link with Parkinson's disease	779
Sagitta otolith		Silver Nanoparticles	
Ultrastructural variations of the sagittae in two <i>Anabantiformes</i> fishes: <i>Anabas testudineus</i> (Bloch, 1792) and <i>Trichogaster fasciata</i> (Bloch & Schneider, 1801)	601	Feather Protein Hydrolysate mediated synthesis of silver nanoparticles and assessment of anti-microbial potential of silver nanoparticle-treated silk cloth	581

Solanum lycopersicum L.

Anticancer potential of <i>Solanum lycopersicum</i> L. extract in human lung epithelial cancer cells A549	76	Textile dyes	
Solar cells		Binding interaction of laccases from <i>Bacillus Subtilis</i> after industrial dyes exposure: Molecular docking and molecular dynamics simulation studies	320
Construction of hybrid solar cells exploiting the interaction of TiO ₂ /Photosystem I complexes	567	Therapeutic applications	
Solution NMR		Pharmacological and therapeutic potential of honey bee antimicrobial peptides	365
Solution structures and thermodynamics of cis-trans X-Pro conformers of a novel single disulfide conopeptide	710	Therapeutic Potential	
Sonic hedgehog		Improving anti-tumour activity with melatonin-stimulated mesenchymal stem cell-derived exosomes in metastatic triple-negative breast cancer	817
<i>Eleutherine bulbosa</i> bulb extract induces apoptosis and inhibits cell migration by down-regulating sonic hedgehog in human tongue cancer cells: An <i>in vitro</i> study	763	Therapeutic targets	
Spatial electrical property		The role of expressed T-cells cytokines mRNAs from endometrial tissue in patients with unexplained infertility	406
A study on variation in spatial voltage distribution pattern across tissue layers between non-excitabile plant and excitable plant	307	<i>Thespesia populnea</i>	
Spectral studies		Phytochemical evaluation and anti-psoriatic activity of the ethanolic extract of the leaves of <i>Thespesia populnea</i>	156
Design, synthesis, characterization and <i>in vitro</i> evaluation of some novel thiol-substituted 1,3,4-oxadiazoles as GlmS inhibitors	148	TIMP-3	
Spectroscopic elucidation		Assessment of YME1L and mitofusin2 as a possible diagnostic and/or therapeutic target in hepatocellular carcinoma	43
Some bis (3-(4-nitrophenyl)acrylamide derivatives: Synthesis, characterization, DFT, antioxidant, antimicrobial properties, molecular docking and molecular dynamics simulation studies	209	TiO ₂ /PSI complexes	
Spleen injury		Construction of hybrid solar cells exploiting the interaction of TiO ₂ /Photosystem I complexes	567
Antioxidant mediated defensive potency of <i>Caesalpinia bonducella</i> nut on Acetaminophen-intoxicated spleen and cardiotoxicity: Implications on oxidative stress and tissue morphology in an <i>In vivo</i> model	297	Tongue cancer	
Streptozotocin		<i>Eleutherine bulbosa</i> bulb extract induces apoptosis and inhibits cell migration by down-regulating sonic hedgehog in human tongue cancer cells: An <i>in vitro</i> study	763
<i>Clitoria ternatea</i> extract-loaded chitosan nanoparticles ameliorate diabetes and oxidative stress in diabetic rats	501	Toxicity analysis	
Structural biology		Generating a potent inhibitor against MCF7 breast cancer cell through artificial intelligence based virtual screening and molecular docking studies	844
Design and development of mutant EGFR inhibitors from a structural perspective	645	Traditional medicine	
SUMOylation		Network pharmacology and molecular docking study of the active ingredients in Saptasaram kashayam for the treatment of Polycystic ovary syndrome	108
Mechanistic insights into the oncogenic partnership of hADA3 and HPVE6 -paving ways for improved cervical cancer therapy	651	Transgenics	
Surfactant granules		Genomics and transgenic approaches for sheath blight resistance development in rice	886
Aplastic anemia patients with severe COVID-19 showed abnormal ultrastructure features on type II pneumocytes of lungs	589	Transmission Electron Microscopy (TEM)	
Surfactant		Urinary exosome isolation in fluorosis patients with early symptoms of nephrotoxicity	596
Molecular docking and cytotoxicity interactions of naringenin and its nano-structured lipid carriers in ER α positive breast cancer	141	Transmitted excitation	
		A study on variation in spatial voltage distribution pattern across tissue layers between non-excitabile plant and excitable plant	307

TRPM2 channel		Ultrastructure	
Effect of selenium against doxorubicin-induced oxidative stress, inflammation, and apoptosis in the brain of rats: Role of TRPM2 channel	177	Upregulation of Psoriasinin Cholesteatoma associated with inflammation, bone destruction and severity of disease: Histo-cyto-chemical and ultrastructural studies	624
TRPM7 channels		Unexplained infertility	
Regulatory role of TRPM7 cation channels on neuronal hypoxia model	836	The role of expressed T-cells cytokines mRNAs from endometrial tissue in patients with unexplained infertility	406
TRPM8 channels		Variant classification	
Downregulation of TRPM8 channels induce cell death in human DBTRG glioblastoma cells	385	A comparative computational approach on the most deleterious missense variant in Connexin 43 protein and its potent inhibitor analysis	7
Tryptophan photooxidation		Virtual Screening	
Newly-discovered behaviour in the bacterial histone-like protein, HU	666	Screening of phytochemicals for potential breast cancer targets BRCA1 and BARD1: A network pharmacology approach	393
Tween 60		Virtual screening	
<i>In silico</i> structural elucidation of novel lipase encoded by LipHim1 gene and it's activation by Tween 60	485	A comparative computational approach on the most deleterious missense variant in Connexin 43 protein and its potent inhibitor analysis	7
Tympanomastoidectomy		Vitamin D Receptor	
Upregulation of Psoriasinin Cholesteatoma associated with inflammation, bone destruction and severity of disease: Histo-cyto-chemical and ultrastructural studies	624	Allosteric modulation on specific gene mutated Vitamin D receptor by essential PUFAs and its distinct molecular effects on type 2 diabetes mellitus	339
Type II pneumocytes		Vitamin D	
A microscopy study to distinguish the ultrastructural changes in the ciliated epithelium, type II pneumocytes, macrophages, and neutrophils of bronchoalveolar fluids after severe SARS-CoV-2 infection	545	Allosteric modulation on specific gene mutated Vitamin D receptor by essential PUFAs and its distinct molecular effects on type 2 diabetes mellitus	339
Aplastic anemia patients with severe COVID-19 showed abnormal ultrastructure features on type II pneumocytes of lungs	589	Water mediated interactions	
Type-2 Diabetes Mellitus		The role of water molecules and its dynamics to the binding site of β -lactamase enzyme with respect to β -lactamase inhibitor	750
Allosteric modulation on specific gene mutated Vitamin D receptor by essential PUFAs and its distinct molecular effects on type 2 diabetes mellitus	339	Whole genome sequencing	
Ubiquitin mutations		Genotypic, phenotypic, and <i>in silico</i> analysis of carbapenem-resistant <i>Klebsiella pneumoniae</i>	673
Mutations in the ubiquitin gene of <i>Saccharomyces cerevisiae</i> accompanied by divergent use of CUG codon affect morphogenesis in <i>Candida albicans</i>	516	Yeast form	
<i>UCK1</i>		Mutations in the ubiquitin gene of <i>Saccharomyces cerevisiae</i> accompanied by divergent use of CUG codon affect morphogenesis in <i>Candida albicans</i>	516
Down-regulation of miRNA 451a promotes many oncogenic signaling pathways in breast cancer patients	467	Yield losses	
Ultrastructure		STMS markers related to Ascochyta blight resistance in chickpea	196
Ultrastructural variations of the sagittae in two <i>Anabantiformes</i> fishes: <i>Anabas testudineus</i> (Bloch, 1792) and <i>Trichogaster fasciata</i> (Bloch & Schneider, 1801)	601		

Yield traits

Mapping and validating quantitative trait loci (QTL) for anthocyanin-related genes, coupled with marker analysis for pericarp pigmentation and yield traits in a black and white rice cross

Zebrafish development

Effects of Morpholino-mediated knockdown of the Angiotensin-converting enzyme 2 (ACE-2) on dopamine Neurogenesis and the Hypothalamic Pituitaryadrenal (HPA) Axis in Larval Zebrafish (*Danio rerio*)

Zebrafish

919	Mitigation of pathological parameters under Jagged1 influence in DMD knockout zebrafish and patient-derived myoblast cultures	681
	β -lactamase inhibitors	
	The role of water molecules and its dynamics to the binding site of β -lactamase enzyme with respect to β -lactamase inhibitor	750
414	β -lactamase	
	The role of water molecules and its dynamics to the binding site of β -lactamase enzyme with respect to β -lactamase inhibitor	750