

Name	Faculty	position	Research program title	Research interests	Webpage address
Abbasi Roohollah	Life sciences and technologies	Assistant Professor	Biodiversity, Evolution, Animal Biotechnology	<ul style="list-style-type: none"> ۱- Study of biodiversity and genetics of insects of medical and agricultural importance ۲- Evolution of morphological and molecular traits in animals, especially insects ۳- Research and development of new technologies (including RNAi) for insect control 	http://bio.ui.ac.ir/~r.abbasi
Afsharzadeh Saeed	Life sciences and technologies	Associate Professor	Biosystematics and ecology of plants and algae	<ul style="list-style-type: none"> ۱- Systematics and Phylogeny of Plants ۲- Ecology and Floristics of Algae ۳- Ecology and Floristics of Vegetaion 	http://sci.ui.ac.ir/~s.afshar
Amiri Hamid	Life sciences and technologies	Assistant Professor	Design and analysis of biological and environmental processes for resource recovery as well as production of value-added chemicals	<ul style="list-style-type: none"> ۱- Experimental and theoretical studies on production of value-added chemicals like alcohols form wastes ۲- Treatment and recycling of waste streams (like industrial wastewater and used fluids) ۳- Analysis of industrial processes especially bio-refineries from energy, techno-economic and environmental point of view 	http://ast.ui.ac.ir/~h.amiri
Asadollahi Mohammad Ali	Life sciences and technologies	Associate Professor	Industrial biotechnology and nanobiotechnology	<ul style="list-style-type: none"> ۱- Biorefinery platform for the production of value-added chemicals from renewable resources ۲- Development of fermentation processes and microorganisms for the production of biological products ۳- Fabrication and characterization of nanofibers and nanoparticle-embedded nanofibers as antimicrobial agents, wound dressing, anticancer, drug carrier, diagnostics and tissue engineering scaffolds 	http://ast.ui.ac.ir/~ma.asadollahi
Bagheri Ali	Life sciences and technologies	Assistant Professor	Systematics and molecular phylogeny of Angiosperm	<ul style="list-style-type: none"> ۱- Plant molecular systematics ۲- Plant biosystematics ۳- Plant taxonomy and floristics 	http://sci.ui.ac.ir/~a.bagheri
Behbahani Mandana	Life sciences and technologies	Associate Professor	Design of aptamers - design of vaccines-anti-microbial and anti-cancer properties of natural products	<ul style="list-style-type: none"> ۱- Design of aptamers ۲- design of vaccines-anti ۳- microbial and anti-cancer properties of natural products 	http://ast.ui.ac.ir/~ma.behbahani
Beheshti Siamak	Life sciences and technologies	Associate Professor	Neural Physiology	<ul style="list-style-type: none"> ۱- Neurophysiology of Learning and Memory, ۲- Neurophysiology of seizures and epilepsy, ۳- Molecular Neurophysiology 	http://sci.ui.ac.ir/~s.beheshti
Beikzadeh Babak	Life sciences and technologies	Assistant Professor	Fundamental Immunology, Cancer Imuunology, Microbes and the immune system	<ul style="list-style-type: none"> ۱- Study of immune response and their products (antibodies, cytokines, etc.) ۲- Investigating the role of the immune system in the prevention and progression of cancers. ۳- Study of the immune responses against microbes and vaccines. 	https://bioold.ui.ac.ir/~b.beikzadeh/

Biria Davoud	Life sciences and technologies	Associate Professor	Biodegradation and Bioconversion of Wastes to Value added Materials	<ul style="list-style-type: none"> ۱- Conversion of carbon dioxide to value added materials ۲- Degradation of polymers through the hybrid methods (biological and non-biological) ۳- Bioremediation of hydrocarbons contaminated media 	http://ast.ui.ac.ir/~d.biria
Bouzari Majid	Life sciences and technologies	Professor	Phage therapy and viral diseases	<ul style="list-style-type: none"> ۱- Studies on isolation and characterization of bacteriophages and assessment of their potentials for phage therapy. ۲- Studies on human and animal viruses 	http://sci.ui.ac.ir/~bouzari
Dehghanian Fariba	Life sciences and technologies	Assistant Professor	Cancer Systems Biology	<ul style="list-style-type: none"> ۱- Systems Biology, High-throughput Data and Co-expression Network analysis ۲- Molecular Dynamics, Structural Systems Biology, Drug Design and Discovery ۳- Functional studies (CRISPER, RNAi, ...) 	http://sci.ui.ac.ir/~fa.dehghanian
Ehsanpour Ali Akbar	Life sciences and technologies	Professor	Plant hormones and growth and development	<ul style="list-style-type: none"> ۱- Plant tissue culture ۲- Plant Salt stress ۳- Plant hormones 	http://sci.ui.ac.ir/~ehsanpou
Emamzadeh Rahman	Life sciences and technologies	Associate Professor	Application of biosensors and recombinant proteins and data analysis in biotechnology and medical science	<ul style="list-style-type: none"> ۱- Design, production and application of biosensors in biotechnology and medical sciences ۲- Application of recombinant proteins in biotechnology and medical sciences ۳- Determination of biomarker genes and pathogenic pathway using mapping of expression and machine learning networks 	http://sci.ui.ac.ir/~r.emamzadeh
Esmaeili Abolghasem	Life sciences and technologies	Professor	Cell and Molecular Neuroscience	<ul style="list-style-type: none"> ۱- Gene expression particularly in Central nervous system and neurodegenerative diseases. ۲- Molecular biology of learning and memory ۳- Protein recombinant 	http://sci.ui.ac.ir/~aesmaeili
Esmaeili Fariba	Life sciences and technologies	Assistant Professor	stem cells	<ul style="list-style-type: none"> ۱- Stem cell isolation ۲- Neural differentiation of stem cells ۳- Differentiation of stem cells into neural cells with dopaminergic phenotype 	http://sci.ui.ac.ir/~f.esmaeili
Etemadifar Zahra	Biological Science and Technology	Associate Professor	Bioremediation of pollutants and micropollutants, and the study of environmental microbiome and application of microbial metabolites	<ul style="list-style-type: none"> ۱- Bioremediation of environmental micropollutants including antibiotics and heavy metals, and pollutants. ۲- Study of soil and water microbiome diversity and their applications. ۳- Application of microbial metabolites and structures 	https://sciold.ui.ac.ir/~z.etemadifar/

Ganjalkhany Mohamad Reza	Life sciences and technologies	Assistant Professor	Synthetic Biology	<p>۱- Protein engineering, mini-protein binders and antibody design</p> <p>۲- Designing, developing and screening of therapeutic peptides</p> <p>۳- Structural-functional studies of proteins, peptides and analysis of drug-protein interaction</p>	http://sci.ui.ac.ir/~m.ganjalkhany
Ghaedi Kamran	Life sciences and technologies	Professor	Molecular Mechanisms of Genetic Factors in Human Diseases	<p>۱- RNA biology and transcriptomics of pathologic state vs normal state</p> <p>۲- Molecular, metabolic and physiologic aspects of genetic factors in pathologic state vs health state.</p> <p>۳- Mechanisms of oxidative stress and inflammatory factors in progress of pathologic state using animal and cell models including stem cells.</p>	http://sci.ui.ac.ir/~kamranghaedi
golabi Mohsen	Life sciences and technologies	Assistant Professor	Biosensors	<p>۱- The development of biosensors and point of care devices for pathogen detection.</p> <p>۲- The development of rapid analysis kits for clinical diagnostic purposes, including genetic disorders, cancer or infections.</p> <p>۳- The development of novel nanomaterials for biotechnological applications.</p>	
Hojati Zohreh	Life sciences and technologies	Professor	Investigation of the molecular basis of diseases, systems biology and genetic engineering, study stem cells differentiation, biotechnology and designing diagnostic kits	<p>۱- Recombinant protein production, Biotechnology and cancer immune therapy</p> <p>۲- Investigation of the molecular basis of diseases</p> <p>۳- Study of stem cells differentiation and Systems biology</p>	http://sci.ui.ac.ir/~z.hojati
Hosseini-Abari Afrouzossadat	Life sciences and technologies	Assistant Professor	Production of metabolites and bioactive compounds by microorganisms and study of their applications	<p>۱- Production of bioactive compounds with antioxidant, anticancer and prebiotic properties from fruit wastes by microbial enzymes</p> <p>۲- Production of biopolymers, pigment and microbial metabolites</p> <p>۳- Synthesis of antimicrobial Surfaces</p>	http://sci.ui.ac.ir/~af.hosseini
Javadirad Seyed Morteza	Life sciences and technologies	Assistant Professor	Understanding the signal transduction pathways involved in cancer and infertility	<p>۱- Modification of quantitative analysis methods of transcription data in RT-qPCR method and elimination of possible problems.</p> <p>۲- Analyze and review bulky biological data (microbial and RNAseq) and find the genes involved in both diseases.</p> <p>۳- Investigate the genes involved in cancer and understand their possible impact on infertility (and vice versa).</p>	http://sci.ui.ac.ir/~sm.javadirad
Javadi- Zarnaghi Fatemeh	Life sciences and technologies	Assistant Professor	nucleic acids biochemistry, lateral flow assays, diagnostic kits	<p>۱- Application of DNA biochemistry for diagnostics</p> <p>۲- Development of novel bioinformatic software in the field of nucleic acids</p> <p>۳- Point of care assays and lateral flow tests</p>	http://sci.ui.ac.ir/~fajavadi

Miroliaei Mehran	Life sciences and technologies	Associate Professor	Utilization of phytochemicals and their "control release" for inhibition of conformational diseases	<ul style="list-style-type: none"> ۱- Phytochemicals in the inhibition of conformational diseases ۲- Structure-function and inhibition of interfering enzymes in diabetes ۳- LTP, structure-function and application in "control release" 	http://sci.ui.ac.ir/~m.miroliaei
Mohabatkar Hassan	Life sciences and technologies	Professor	Design of aptamers and vaccines, anti-microbial and anti-cancer properties of natural products	<ul style="list-style-type: none"> ۱- Design of aptamers ۲- design of vaccines-ant ۳- microbial and anti-cancer properties of natural products 	http://ast.ui.ac.ir/~h.mohabatkar
Moradmand Majid	Life sciences and technologies	Associate Professor	Animal Biosystematics	<ul style="list-style-type: none"> ۱- Morphologic and molecular Taxonomy ۲- Arachnology ۳- Applied Zoology 	http://sci.ui.ac.ir/~m.moradmand
Motovali-Bashi Majid	Life sciences and technologies	Associate Professor	Human Genomics Studies	<ul style="list-style-type: none"> ۱- Human Genetic Disorder ۲- Cancer ۳- Infertility 	http://sci.ui.ac.ir/~mbashi
Noorbakhshnia Maryam	Life sciences and technologies	Associate Professor	Neuroscience	<ul style="list-style-type: none"> ۱- Neurobiology of learning and memory (Cellular and molecular mechanisms and studying brain signals using electrophysiological recording) ۲- Neuronal Disruptions and Neurodegenerative disease and studying effective compounds ۳- Neurophysiology of addiction 	http://sci.ui.ac.ir/~m.noorbakhshnia
Rabbani Khorasgani Mohammad	Life sciences and technologies	Associate Professor	Industrial biotechnology and nanobiotechnology	<ul style="list-style-type: none"> ۱- Biorefinery platform for the production of value-added chemicals from renewable resources ۲- Development of fermentation processes and microorganisms for the production of biological products ۳- Fabrication and characterization of nanofibers and nanoparticle-embedded nanofibers as antimicrobial agents, wound dressing, anticancer, drug carrier, diagnostics and tissue engineering scaffolds 	http://sci.ui.ac.ir/~mo.rabbani
Rahgozar Soheila	Life sciences and technologies	Associate Professor	Cancer Cell Biology and Molecular Oncology	<ul style="list-style-type: none"> ۱- leukemia, ۲- Drug Resistance, ۳- Anti-Cancer Components 	http://sci.ui.ac.ir/~rahgozar
Rahimi Fateh	Life sciences and technologies	Associate Professor	Appropriate therapeutic strategies for treatment of biofilm associated urinary tract infection	<ul style="list-style-type: none"> ۱- Access to appropriate compounds among native medicinal plants and also antibiotics and synthetic compounds for treatment of urinary tract infection ۲- Determination of clonal dissemination of bacterial strains associated with UTI in different provinces to access the dominant bacteria and bacterial types ۳- Establishment of native microbial collection of pathogenic bacteria causing UTI in Iran 	http://sci.ui.ac.ir/~f.rahimi
Saeidi Hojjatollah	Life sciences and technologies	Associate Professor	Genetic diversity, phylogeny and taxonomy of plants	<ul style="list-style-type: none"> ۱- Plant genetic diversity ۲- Plant Phylogeny and Phylogenomics ۳- Plant Taxonomy 	http://sci.ui.ac.ir/~ho.saeidi
Shafiei Rasoul	Life sciences and technologies	Assistant Professor	Improvement of fermentation processes and microbial strains	<ul style="list-style-type: none"> ۱- Improvement of fermentation processes and microbial strains ۲- Single Cell Microbiology ۳- Evolutionary Engineering 	http://sci.ui.ac.ir/~r.shafiei

Shariati Mansour	Life sciences and technologies	Professor	Physiological study of plants in response to stresses using plant model systems and unicellular green alga <i>Dunaliella</i>	<p>۱- Physiological and molecular effect of environmental stress such as salt, temperature, drought, heavy metals and nanoparticles and also nutrients uptake, using plant model systems <i>Arabidopsis</i>, tobacco, tomato and unicellular green alga <i>Dunaliella</i></p> <p>۲- Using physiological responses of unicellular green alga <i>Dunaliella</i> in order to deliver new biotechnological ideas such as increasing useful products like beta-carotene, lipid etc.,</p> <p>۳- Using physiological responses of unicellular green alga <i>Dunaliella</i> and <i>Chlorella</i> in order to deliver new environmental ideas such as bioremediation of heavy metals, pesticides, insecticides, and other harmful materials released in the environment</p>	http://sci.ui.ac.ir/~mansour
Taghizadeh Marzieh	Life sciences and technologies	Assistant Professor	The effects of different stresses on plants, optimization of secondary metabolites production in medicinal plants	<p>۱- Micropropagation and optimization of cell and hairy root culture of medicinal plants under <i>in vitro</i> condition</p> <p>۲- The effects of different elicitors on secondary metabolites production of medicinal plants under <i>in vitro</i> culture.</p> <p>۳- Investigation of plants physiological and molecular responses to environmental stresses</p>	https://bio.ui.ac.ir/~m.taghizadeh
Taheri Asgar	Life sciences and technologies	Associate Professor	Synthesis, Functionalization and Biological Applications of Nanomaterials	<p>۱- Applications of Nanomaterials in enzyme immobilization and targeted drug delivery</p> <p>۲- Using metal-based nanomaterials as nanozymes and their biological applications</p> <p>۳- Microbial production of biological materials</p>	http://ast.ui.ac.ir/~a.taheri
Vallian Sadegh	Life sciences and technologies	Professor	Analysis of the association of genome variations and genetic biomarkers with drug resistance in cancer	<p>۱- Analysis of pathways and gene networks in relation to cancer drug resistance</p> <p>۲- Identification of new biomarkers in diagnosis and therapy of cancer</p> <p>۳- Genomic variations in cancer and genetic diseases</p>	http://sci.ui.ac.ir/~svallian