

Prof. TARLAN MAMMEDOV

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: J-3853-2013

Yoksis Researcher ID: 293655

Education Information

Doctorate, Azerbaijan Academy of Sciences, approved by USSR Highest Attestation Commission, Biyokimya, Kazakhstan 1982 - 1985

Postgraduate, Azərbaycan Devlet Üniversitesi, Kimya, Azerbaijan 1975 - 1980

Research Areas

Biotechnology, Plant Biotechnology, Microbial Biotechnology, Genetic Engineering, Protein Engineering

Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Agriculture, Department of Agricultural Biotechnology, 2014 - Continues

Professor, The University of Nebraska-Lincoln, College of Engineering, Chemical and Biomolecular Engineering Department, 2006 - 2009

Expert, The University of Nebraska-Lincoln, Beadle Center, University of Nebraska-Lincoln (USA), Biochemistry Department, 2002 - 2006

Expert, Azərbaycan Bilimler Akademisi, Institute of Botany, Biochemistry and Molecular biology, 1990 - 1999

Expert, Azərbaycan Bilimler Akademisi, Institute of botany, Biochemistry and Molecular biology, 1989 - 1990

Academic and Administrative Experience

Head of Molecular Bioengineering lab (International lab), Ministry of education and science of Azerbaijan, Institute of Molecular Biology and biotechnologies, 2018 - Continues

Courses

Doctorate

New generation vaccines, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Supervising, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Recombinant protein production, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022

PhD SPECIAL SUBJECT AREA LESSONS, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020,

2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

PhD Thesis, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

PhD SPECIAL SUBJECT AREA LESSONS, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Enzymology, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

PhD SPECIAL SUBJECT AREA LESSONS, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

PhD Thesis, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Advanced Biochemistry, Doctorate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Postgraduate

MSc Thesis, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Supervising, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Seminar, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

MSc SPECIAL SUBJECT AREA LESSONS, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

MSc SPECIAL SUBJECT AREA LESSONS, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Molecular Plant Biotechnology, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Supervised Theses

Mammedov T., Deglikolize kolisin M ve K formlarının bitkide *in vivo* üretimi, saflaştırılması, karakterizasyonu ve doğal gıda katkı maddesi olarak kullanım olanakları, Doctorate, M.ILGIN(Student), 2023

Mammedov T., Enhancement of recombinant protein expression by optimizing nutrient replenishment in *N. benthamiana*, Postgraduate, G.Yusifova(Student), 2023

Mammedov T., Yeşil mikroalg *Chlamydomonas reinhardtii*'de piruvat, ortofosfat dikinaz (PPDK) kodlayan iki genin izolasyonu, klonlaması ve ekspresyon analizi, Doctorate, F.DEMİREL(Student), 2023

Mammedov T., SARS-Cov-2 spike proteininin reseptör bağlanma bölgesinin (RBD), Fc bölge ile birleştirilmiş formunun *Nicotiana Benthamiana* bitkisinde mühendisliği ve üretimi, Postgraduate, R.TALHA(Student), 2022

Mammedov T., *Nicotiana benthamiana* bitkisinde SUMO-G füzyon proteininin (small ubiquitin-like modifier domain ve rabies glycoprotein (G)) mühendisliği ve ekspresyonu, Postgraduate, Ö.ÜLGEN(Student), 2022

Mammedov T., Engineering, expression, production and characterization of bacterial pullulanase enzyme, Postgraduate, A.Murşutzade(Student), 2021

Mammedov T., Endo H ile deglikozile edilmiş PA83 ve PA83 antijenlerinin farklı varyantlarının anti-PA83 monoklonal antikolları ile bağlanma afinite çalışmaları, Postgraduate, İ.GÜRBÜZASLAN(Student), 2021

Mammedov T., Production and characterization of heptamerized form of PA83 of *Bacillus anthracis* in *Nicotiana benthamiana* plants as vaccine candidate against anthrax, Doctorate, N.GÜN(Student), 2021

Mammedov T., *N. benthamiana* bitkisinin kurutulmuş yapraklarında *Bacillus anthracis*'in koruyucu antijeni'nin (PA83) deglikozile edilmiş ve mutant formunun stabilite ve fonksiyon aktivite değerlendirilmesi, Postgraduate, SAKBURU(Student), 2020

Mammedov T., *Nicotiana benthamiana* bitkisinde *in vivo* endo H ile deglikozile edilmiş PA83'ün diğer PA83 formları ile karşılıklı stabilite çalışmaları, Postgraduate, D.SAY(Student), 2020

Mammedov T., Engineering, production, and characterization of glycosylated and *in vivo* deglycosylated forms of anti-

PA83 in *Nicotiana benthamiana*, Postgraduate, D.YÜKSEL(Student), 2020

Mammedov T., Farklı bitki ekspresyon vektörleri tarafından üretilen deglikosile edilmiş PA83 antijeninin ekspresyon seviyelerinin karşılaştırılması, Postgraduate, E.MIRZALIYEVA(Student), 2020

Mammedov T., N. benthamiana'da üretilmiş insan fix'nın hafif ve ağır zincirlerinin tasarlanması, üretimi ve karakterizasyonu, Postgraduate, R.AKÇORA(Student), 2019

Mammedov T., N. benthamiana'da P. falciparum Pfs48/45 R0.10C varyantlarının tasarlanması, üretimi ve karakterizasyonu, Postgraduate, K.Çiçek(Student), 2018

Mammedov T., Isolation, cloning, characterization and heterologous expression in *Escherichia coli* of *Chlamydomonas reinhardtii* pyruvate orthophosphate(Pi) Dikinase (PPDK) 1 gene, Postgraduate, T.TANGUT(Student), 2018

Mammedov T., Expression, production and characterization of plant produced deglycosylated Pfs48/45 variants, Postgraduate, B.GÜLEÇ(Student), 2018

Mammedov T., *Chlamydomonas reinhardtii* fosfoenolpirüvat karboksikinas 1 geninin A ve B kesim varyantlarının izolasyonu, karakterizasyonu ve *Escherichia coli*'de heterolog ekspresyonu, Postgraduate, N.CEBRAİLOĞLU(Student), 2017

Mammedov T., N. benthamiana bitkisinde aktif insan faktör IX rekombinant proteininin varyantlarının klonlanması, ekspresyonu, saflaştırılması ve karakterizasyonu, Postgraduate, I.MUSAYEVA(Student), 2017

Mammedov T., Şarbon aşısı adayı olarak PA83'ün yeni mutant formunun N. benthamiana bitkisinde tasarlanması, ekspresyonu, saflaştırılması ve karakterizasyonu, Postgraduate, R.ÜNGÖR(Student), 2017

Mammedov T., Comparing study of plant produced glycosylated and non-glycosylated forms of PA83 and pfs48F1, Postgraduate, K.Herschbach(Student), 2013

Mammedov T., Expression, Purification and Characterization of Active Recombinant Human Galactosidase in N. benthamiana, Postgraduate, K.Sabrina(Student), 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Isolation, cloning, and gene expression analysis of phosphoglycolate phosphatase from green alga *Chlamydomonas reinhardtii***
Mamedov T., Zakiyeva G., Demirel F., Mammadova G., Hasanova G.
Photosynthetica, vol.62, no.1, pp.90-101, 2024 (SCI-Expanded)
- II. **Plant-produced RBD and cocktail-based vaccine candidates are highly effective against SARS-CoV-2, independently of its emerging variants**
MAMMEDOV T., Yuksel D., Gurbuzaslan I., Ilgin M., Gulec B., Mammadova G., ÖZDARENDELİ A., PAVEL S. T. I., YETİŞKİN H., KAPLAN B., et al.
Frontiers in Plant Science, vol.14, 2023 (SCI-Expanded)
- III. **SARS-CoV-2 spike protein S1 subunit induces potent neutralizing responses in mice and is effective against Delta and Omicron variants**
Mamedov T., Yuksel D., Gurbuzaslan I., Gulec B., Mammadova G., Ozdarendeli A., Pavel S. T. I., Yetiskin H., Kaplan B., Uygut M. A., et al.
Frontiers in Plant Science, vol.14, 2023 (SCI-Expanded)
- IV. **Soluble Human Angiotensin- Converting Enzyme 2 as a Potential Therapeutic Tool for COVID-19 is Produced at High Levels In *Nicotiana benthamiana* Plant With Potent Anti-SARS-CoV-2 Activity**
MAMMEDOV T., Gurbuzaslan I., Yuksel D., Ilgin M., Mammadova G., ÖZKUL A., Hasanova G.
Frontiers in Plant Science, vol.12, 2021 (SCI-Expanded)
- V. **Production and Characterization of Nucleocapsid and RBD Cocktail Antigens of SARS-CoV-2 in *Nicotiana benthamiana* Plant as a Vaccine Candidate against COVID-19**
MAMMEDOV T., Yuksel D., Ilgin M., Guerbuezaslan I., Gulec B., Mammadova G., ÖZDARENDELİ A., YETİŞKİN H., KAPLAN B., Islam Pavel S. T., et al.
VACCINES, vol.9, no.11, 2021 (SCI-Expanded)
- VI. **Plant-Produced Glycosylated and In Vivo Deglycosylated Receptor Binding Domain Proteins of SARS-CoV-2 Induce Potent Neutralizing Responses in Mice**

Mamedov T, Yuksel D, Ilgin M, Gurbuzaslan I, Gulec B, Yetişkin H, Uygut M. A., Islam Pavel S. T., Özdarendeli A., Mammadova G., et al.

VIRUSES-BASEL, vol.13, no.8, 2021 (SCI-Expanded)

- VII. **Engineering, production and characterization of Spike and Nucleocapsid structural proteins of SARS-CoV-2 in *Nicotiana benthamiana* as vaccine candidates against COVID-19**
Mammedov T, Yüksel D, Ilgin M, Gürbüzaslan İ, Güleç B, Mammadova G, Say D, Hasanova G.
VACCINES, vol.9, no.11, 2020 (SCI-Expanded)
- VIII. **A Plant-Produced in vivo deglycosylated full-length Pfs48/45 as a Transmission-Blocking Vaccine Candidate against malaria.**
MAMEDOV T, CICEK K, MIURA K, GULEC B, AKINCI E, MAMMADOVA G, HASANOVA G.
Scientific reports, vol.9, no.1, pp.9868, 2019 (SCI-Expanded)
- IX. **Engineering, and production of functionally active human Furin in *N. benthamiana* plant: In vivo post-translational processing of target proteins by Furin in plants.**
Mamedov T, Musayeva I, Acsora R, Gun N, Gulec B, Mammadova G, Cicek K, Hasanova G.
PloS one, vol.14, no.3, 2019 (SCI-Expanded)
- X. **In vivo production of non-glycosylated recombinant proteins in *Nicotiana benthamiana* plants by co-expression with Endo-beta-N-acetylglucosaminidase H (Endo H) of *Streptomyces plicatus***
Mamedov T, Cicek K, Gulec B, Ungor R, Hasanova G.
PLOS ONE, vol.12, no.8, 2017 (SCI-Expanded)
- XI. **Production of Functionally Active and Immunogenic Non-Glycosylated Protective Antigen from *Bacillus anthracis* in *Nicotiana benthamiana* by Co-Expression with Peptide-N-Glycosidase F (PNGase F) of *Flavobacterium meningosepticum***
Mamedov T, Chichester J. A., Jones R. M., Ghosh A., Coffin M. V., Herschbach K., Prokhnevsky A. I., Streatfield S. J., Yusibov V.
PLOS ONE, vol.11, no.4, 2016 (SCI-Expanded)
- XII. **Development of a Single-Replicon miniBYV Vector for Co-expression of Heterologous Proteins**
Prokhnevsky A., Mamedov T., Leffet B., Rahimova R., Ghosh A., Mett V., Yusibov V.
MOLECULAR BIOTECHNOLOGY, vol.57, no.2, pp.101-110, 2015 (SCI-Expanded)
- XIII. **In vivo deglycosylation of recombinant proteins in plants by co-expression with bacterial PNGase F**
Mamedov T., Yusibov V.
BIOENGINEERED, vol.4, no.5, pp.338-342, 2013 (SCI-Expanded)
- XIV. **Production of non-glycosylated recombinant proteins in *Nicotiana benthamiana* plants by co-expressing bacterial PNGase F**
Mamedov T., Ghosh A., Jones R. M., Mett V., Farrance C. E., Musiychuk K., Horsey A., Yusibov V.
PLANT BIOTECHNOLOGY JOURNAL, vol.10, no.7, pp.773-782, 2012 (SCI-Expanded)
- XV. **The effect of ultrasound stimulation on the gene and protein expression of chondrocytes seeded in chitosan scaffolds**
Hasanova G. I., Noriega S. E., Mamedov T., Thakurta S. G., Turner J. A., Subramanian A.
JOURNAL OF TISSUE ENGINEERING AND REGENERATIVE MEDICINE, vol.5, no.10, pp.815-822, 2011 (SCI-Expanded)
- XVI. **Sequential co-immobilization of thrombomodulin and endothelial protein C receptor on polyurethane: Activation of protein C**
Kador K. E., Mamedov T., Schneider M., Subramanian A.
ACTA BIOMATERIALIA, vol.7, no.6, pp.2508-2517, 2011 (SCI-Expanded)
- XVII. **Antibodies to plant-produced *Plasmodium falciparum* sexual stage protein Pfs25 exhibit transmission blocking activity**
Farrance C. E., Chichester J. A., Musiychuk K., Shamloul M., Rhee A., Manceva S. D., Jones R. M., Mamedov T., Sharma S., Mett V., et al.
HUMAN VACCINES, vol.7, pp.191-198, 2011 (SCI-Expanded)
- XVIII. **Green algae *Chlamydomonas reinhardtii* possess endogenous sialylated N-glycans**
Mamedov T., Yusibov V.

- FEBS OPEN BIO, vol.1, pp.15-22, 2011 (SCI-Expanded)
- XXIX. **Automated Two-Column Purification of Iminobiotin and BrdU-Labeled PCR Products for Rapid Cloning: Application to Genes Synthesized by Polymerase Chain Assembly**
Termaat J. R., Mamedov T., Pienaar E., Whitney S. E., Subramanian A.
JOURNAL OF CHROMATOGRAPHIC SCIENCE, vol.48, no.2, pp.120-124, 2010 (SCI-Expanded)
- XX. **Gene synthesis by integrated polymerase chain assembly and PCR amplification using a high-speed thermocycler**
Termaat J. R., Pienaar E., Whitney S. E., Mamedov T., Subramanian A.
JOURNAL OF MICROBIOLOGICAL METHODS, vol.79, no.3, pp.295-300, 2009 (SCI-Expanded)
- XXI. **A fundamental study of the PCR amplification of GC-rich DNA templates**
Mamedov T., Pienaar E., Whitney S. E., Termaat J. R., Carvill G., Goliath R., Subramanian A., Viljoen H. J.
COMPUTATIONAL BIOLOGY AND CHEMISTRY, vol.32, no.6, pp.452-457, 2008 (SCI-Expanded)
- XXII. **Importance of annealing times in the PCR amplification of GC-rich genes**
Subramanian A., Mamedov T., Pienaar E., Viljoen H.
JOURNAL OF BIOTECHNOLOGY, vol.136, 2008 (SCI-Expanded)
- XXIII. **Molecular chaperone activity of tomato (*Lycopersicon esculentum*) endoplasmic reticulum-located small heat shock protein**
Mamedov T., Shono M.
JOURNAL OF PLANT RESEARCH, vol.121, no.2, pp.235-243, 2008 (SCI-Expanded)
- XXIV. **The two divergent PEP-carboxylase catalytic subunits in the green microalga *Chlamydomonas reinhardtii* respond reversibly to inorganic-N supply and co-exist in the high-molecular-mass, hetero-oligomeric class-2 PEPC complex**
Moellering E. R., Ouyang Y., Mamedov T., Chollet R.
FEBS LETTERS, vol.581, no.25, pp.4871-4876, 2007 (SCI-Expanded)
- XXV. **Rational de novo gene synthesis by rapid polymerase chain assembly (PCA) and expression of endothelial protein-C and thrombin receptor genes**
Mamedov T., Padhye N. V., Viljoen H., Subramanian A.
JOURNAL OF BIOTECHNOLOGY, vol.131, no.4, pp.379-387, 2007 (SCI-Expanded)
- XXVI. **The phosphoglycolate phosphatase gene and the mutation in the phosphoglycolate phosphatase-deficient mutant (p_{gpg1-1}) of *Chlamydomonas reinhardtii***
Suzuki K., Uchida H., Mamedov T.
CANADIAN JOURNAL OF BOTANY-REVUE CANADIENNE DE BOTANIQUE, vol.83, no.7, pp.842-849, 2005 (SCI-Expanded)
- XXVII. **Identification and expression analysis of two inorganic C- and N-responsive genes encoding novel and distinct molecular forms of eukaryotic phosphoenolpyruvate carboxylase in the green microalga *Chlamydomonas reinhardtii***
Mamedov T., Moellering E., Chollet R.
PLANT JOURNAL, vol.42, no.6, pp.832-843, 2005 (SCI-Expanded)
- XXVIII. **Characteristics and sequence of phosphoglycolate phosphatase from a eukaryotic green alga *Chlamydomonas reinhardtii***
Mamedov T., Suzuki K., Miura K., Kucho K., Fukuzawa H.
JOURNAL OF BIOLOGICAL CHEMISTRY, vol.276, no.49, pp.45573-45579, 2001 (SCI-Expanded)
- XXIX. **A mutant of *Chlamydomonas reinhardtii* with reduced rate of photorespiration**
Suzuki K., Mamedov T., Ikawa T.
PLANT AND CELL PHYSIOLOGY, vol.40, no.8, pp.792-799, 1999 (SCI-Expanded)
- XXX. **Enzymes of PEP-metabolism of C-3-plants in extreme conditions**
Mamedov T., Guliev N.
FASEB JOURNAL, vol.11, no.9, 1997 (SCI-Expanded)
- XXXI. **PHYSICO-CHEMICAL PROPERTIES AND QUATERNARY STRUCTURE OF CHICK PEA LEAF CARBOANHYDRASE**
Ahev D., Guliev N., Mamedov T., Tsuprun V.

BIOCHEMISTRY-MOSCOW, vol.51, no.11, pp.1524-1533, 1986 (SCI-Expanded)

XXXII. SUBUNIT STRUCTURE OF CARBOHYDRASE FROM LEAVES OF CICER-ARIETINUM

Gulev N., Mamedov T., Alev D.

DOKLADY AKADEMII NAUK SSSR, vol.280, no.6, pp.1466-1468, 1985 (SCI-Expanded)

XXXIII. THE QUATERNARY STRUCTURE OF CARBONIC-ANHYDRASE FROM LEAVES OF DICOTYLEDONOUS PLANT CICER-ARIETINUM

Alev D., Tsuprun V., Gulev N., Mamedov T.

DOKLADY AKADEMII NAUK SSSR, vol.285, no.6, pp.1472-1471, 1985 (SCI-Expanded)

Articles Published in Other Journals

- I. **Flexible approaches are required for successful production of recombinant proteins in plants**
Gün N., Mammedov T.
Medicine Science, vol.11, 2022 (Peer-Reviewed Journal)
- II. **Engineering, production, and immunogenicity studies of a truncated form of rabies virus glycoprotein produced in Nicotiana benthamiana plant**
mammedova g., GÜRBÜZASLAN İ., YÜKSEL D., GÜN N., MUTLU N., Hasanova G., MAMMEDOV T.
Medicine Science, vol.11, 2022 (Peer-Reviewed Journal)
- III. **Post-translational modifications of recombinant proteins produced in plants: Review**
MAMMEDOV T., GÜN N.
Transactions of the Institute of Molecular Biology & Biotechnologies, ANAS, 2021 (Peer-Reviewed Journal)
- IV. **Plant molecular pharming is a promising system for cost-effective production of veterinary vaccines**
MAMMEDOV T., GÜLEÇ B., mammedova g.
Mediterranean Agricultural Sciences, vol.33, 2020 (Peer-Reviewed Journal)
- V. **Sequence Analysis and Amino Acid Variations of Structural Proteins Deduced From Novel Coronavirus SARS-CoV-2 Strains, Isolated in Different Countries**
MAMMEDOV T., SOYLU İ., Mammadova G., Hasanova G.
MDPI AG, 2020 (Non Peer-Reviewed Journal)

Supported Projects

Mammedov T., TUBITAK Project, PFS25 Ve PFS230 Aşı Adaylarının Deglikosile Edilmiş Formlarının Mühendisliği, Üretimi Ve Karakterizasyonu, 2023 - 2026

Mammedov T., Project Supported by Other Official Institutions, Bitki üretimli SARS-Cov-2 Spike proteininin trimerik formlarının aşı adayları olarak mühendisliği, üretimi ve karakterizasyonu., 2020 - 2023

Mammedov T., TUBITAK Project, Kuduza Karşı Bir Aşı Adayı Olarak Bitkilerde Üretilmiş G Proteini Varyantlarının Mühendisliği, Üretimi ve Karakterizasyonu, 2019 - 2022

Mammedov T., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Oldukça patojenik SARS-CoV-2 koronavirüsüne karşı aşı adayları olarak spike proteinlerinin farklı varyantlarının mühendisliği, üretimi, karakterizasyonu, ve klinik öncesi değerlendirilmesi, 2020 - 2021

Mammedov T., TUBITAK Project, Şarbona Karşı Aşı Adayı Olarak Kullanılabilir Koruyucu Antijen (PA)'nın Bitkide Üretilmiş Deglikosile Formunun Üretimi, Karakterizasyonu ve Klinik Öncesi Değerlendirilmesi, 2015 - 2021

Mammedov T., TUBITAK Project, Nicotinia Benthamiana Bitkisinde Aktif İnsan Faktör Ix Rekombinant Proteinini Üretimi, 2015 - 2018

Mammedov T., TUBITAK Project, Yeşil Mikro Alg Chlamydomonas Reinhardtii de CO2 Fiksasyon Metabolizmasının Denetiminin Biyokütle ve Biyoyakıt Üretimini Arttırmak için Değiştirilmesi Proje - Durumu - Türü 214Z118 - Sonuçlandı - Uluslararası AZERBAIJAN-ANAS (Geçici No: 111406), 2015 - 2017

Mammedov T., TUBITAK Project, Pfs48/45 Aşı Adaylarının Deglikosile Biçimlerinin Dizayını, Üretimi ve Karakterizasyonu, 2014 - 2017

Patent

Mammedov T., ENGINEERING, PRODUCTION AND CHARACTERIZATION OF PLANT PRODUCED NUCLEOCAPSID AND SPIKE STRUCTURAL PROTEINS OF SARS-COV-2 AS VACCINE CANDIDATES AGAINST COVID-19, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: EP4029569A1 , Standard Registration, 2022

Mammedov T., IN VIVO POST-TRANSLATIONAL PROCESSING OF TARGET PROTEIN BY FURIN IN PLANTS: ENGINEERING, EXPRESSION AND PRODUCTION OF FUNCTIONAL ACTIVE HUMAN FURIN IN N. BENTHAMIANA PLANTS, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: US20210292730A1 , Standard Registration, 2021

Mammedov T., ENGINEERING, PRODUCTION AND CHARACTERIZATION OF PLANT PRODUCED, SOLUBLE HUMAN ANGIOTENSIN CONVERTING ENZYME-2 AS A THERAPEUTIC TARGET IN COVID-19, Patent, CHAPTER A Human Needs, The Invention Recourse Number: PCT/TR2021/051277 , Standard Registration, 2021

Mammedov T., OBTAINING IN VIVO N-DEGLYCOSYLATED RECOMBINANT PROTEINS BY COMBINED EXPRESSION WITH ENDO H, Patent, CHAPTER A Human Needs, The Invention Registration Number: RU2018117921A , Standard Registration, 2019

Mammedov T., Yusibov V., IN VIVO DE-GLYCOSYLATION OF RECOMBINANT PROTEINS BY CO-EXPRESSION WITH PNGASE F, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: EP2718444B1 , Standard Registration, 2017

Mammedov T., PRODUCTION OF IN VIVO N-DEGLYCOSYLATED RECOMBINANT PROTEINS BY CO-EXPRESSION WITH ENDO H, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: PCT/IB2015/058781 , Standard Registration, 2015

Metrics

Publication: 42

Citation (WoS): 420

Citation (Scopus): 543

H-Index (WoS): 12

H-Index (Scopus): 14

Congress and Symposium Activities

10. Ulusal Aşı Sempozyumu, 15-17 Eylül, 2023, Ankara, Invited Speaker, Ankara, Turkey, 2023

4th International Vaccinology Congress, Ankara, Turkey, Invited Speaker, Ankara, Turkey, 2022

organization of Turkish states 8th Turkish medical world conference, Istanbul, Invited Speaker, İstanbul, Turkey, 2022
European Biotechnology Congress, September 24-26, 2020 in Prague, Czechia, Invited Speaker, Praha, Czech Republic, 2020

6th Turkish Medical World congress, 29-31 OCTOBER, RENAISSANCE POLAT ISTANBUL HOTEL, BAKIRKOY, Invited Speaker, İstanbul, Turkey, 2019

Eurasian Congress of Molecular Biotechnology (ECOMB 2019), Invited Speaker, Trabzon, Turkey, 2019

Plant-Based Vaccines, Antibodies & Biologics, 10-12 June 2019, University of Latvia, Riga, Latvia, Invited Speaker, Riga, Latvia, 2019

International İVEK Biotechnology Congress (İVEK BIO 2018), Invited Speaker, İstanbul, Turkey, 2018

FEBS 2017, 10 September 2017 08:00 - 14 September 2017 18:00, Jerusalem, Israel, Invited Speaker, Yerushalayim, Israel, 2017

Plant-Based Vaccines, Antibodies & Biologics, 5-7 June 2017, NAU Sao Rafael Atlantico Hotel, Albufeira, Portugal, Invited Speaker, Agualva-Cacem, Portugal, 2017

Plant-Based Vaccines, Antibodies & Biologics, June 8-10, Lausanne, Switzerland, Invited Speaker, Lausanne, Switzerland, 2015

In Presidium of Azerbaijan National Academy of Sciences, Azerbaijan, Baku, Invited Speaker, Baku, Azerbaijan, 2015

Awards

Mammedov T., ISIF'20 Grand Prix Award, Türk Patent Ofisi, April 2020

Mammedov T., N/A, Member Of The Azerbaijan National Academy Of Sciences (Anas), February 2014

Mammedov T., Professor, The Supreme Attestation Commission Attached To The President Of The Republic Of Azerbaijan, March 2010

Mammedov T., DOCTOR OF SCIENCE IN MOLECULAR BIOLOGY, The Supreme Attestation Commission Attached To The President Of The Republic Of Azerbaijan, May 2009

Mammedov T., JIRCAS Visiting Fellowship, N/A, March 2001

Mammedov T., The STA (Japan Science and Technology Agency) Fellowship, N/A, June 1999

Mammedov T., The STA (Japan Science and Technology Agency) Fellowship, N/A, March 1998