

CURRICULUM VITAE

A.A. MOOSAVI - MOVAHEDI

CITATION

ALI A. MOOSAVI - MOVAHEDI

Awards and achievements:

- Khawarazmi Prize, ۱۹۹۰
- National Distinguished Professor, ۱۹۹۷
- National Eternal Figures (NEF) ۲۰۰۳
- The First Class Medal for Research, University of Tehran, ۲۰۰۳
- Razi Festival First Rank Award, ۲۰۰۵
- Elsevier-Scopus International Award for Top Researcher, ۲۰۰۷
- Avicenna Festival First Rank Award for Top Researcher, ۲۰۰۸
- Member of Iran Academy of Sciences, ۲۰۰۹
- First rank award and national eminent researcher, ۲۰۰۹
- Professor of Eminence of the University of Tehran, ۲۰۱۰
- Prominent Professor appointed by Iran National Elites Foundation ۲۰۱۲
- International Festival of University of Tehran First Rank Award for top ESI (Essential Science Indicator) Scientist in the Fields of Biology and Biochemistry ۲۰۱۳. ESI rank is continued until now.
- TWAS (The World Academy of Sciences) Fellow ۲۰۱۵
- Islamic World Academy of Sciences Fellow ۲۰۱۶
- COMSTECH Award for Lifetime Achievement Award in Chemistry ۲۰۲۱

Field: Science

Brief Biography:

Ali A. Moosavi-Movahedi is currently Professor of Biophysical Chemistry in IBB, University of Tehran. Born in Shiraz, Iran, in ۱۹۵۳, graduated from National University of Iran (NUI) with a BSc in Chemistry, ۱۹۷۵, from Eastern Michigan University (EMU), USA, with a MSc in Chemistry (Bioanalytical Chemistry), ۱۹۷۹ and from University of Manchester, UK, with a PhD in Biophysical Chemistry, ۱۹۸۶. His research career has been mostly marked on thermodynamics of protein folding/unfolding. In recognition of his outstanding research in the field of science, he was awarded International Khawrazmi Prize, ۱۹۹۰, National Distinguished Professor, ۱۹۹۷, the first class medal for research, University of Tehran, ۲۰۰۳, National Eminent Character ۲۰۰۳, first rank medal for basic science research in Razi Medical Science National Festival ۲۰۰۵, Elsevier-Scopus International Award for Top Researcher in the Field of Biochemistry, Genetics & Molecular Biology ۲۰۰۷, Avicenna Festival First Rank Award for Top Researcher-۲۰۰۸, Member of Iran Academy of Sciences, ۲۰۰۹ and first rank award and national eminent researcher ۲۰۰۹ is conferred in National Research Festival; Ministry of Science, Research and Technology of Iran, selected as Eminent Professor of University of Tehran ۲۰۱۰, prominent Professor appointed by Iran National Elites Foundation ۲۰۱۲ and Essential Science Indicators (ESI) ۱٪ citation scientist in the field of Biology and Biochemistry ۲۰۱۳-until now, TWAS (The World Academy of Sciences) Fellow ۲۰۱۵, IAS (The Islamic Academy of Sciences) Fellow ۲۰۱۶, COMSTECH Award for Lifetime Achievement Award in Chemistry ۲۰۲۱. He has supervised PhD and MSc students and guides postdoctoral researchers in the cited area. He is the author of ۲۰ books and numerous research full papers published in mostly international research journals mainly in the area of structural elucidation of protein, enzyme and DNA. He is a member of a few scientific societies in National and International level and is currently the president of Iran Society of Biophysical Chemistry. He is already the president of National Member Committee of International Council for Science (previous name ICSU) at University of Tehran.

Professional Experience:

Professor Ali A. Moosavi-Movahedi's scientific career has been mostly marked on thermodynamics of protein denaturation especially by surfactants, protein folding/unfolding, protein glycation, artificial enzyme and bioactive peptides. Denaturation study provides extra information on local and site-specific properties of biological macromolecule systems that lie at the heart of many biochemical regulation phenomena and are the basic key to biological control. Protein denaturation is a key technique to obtain the stability of protein in solution and understanding the protein function-structure relationship. The denaturation by surfactants provide the specific virtue of directly binding between biological macromolecules (e.g. protein, DNA) and surfactant complexes. The availability of binding data induced the chance to open up the way to extensive area of macromolecular ligand binding theories that provide a deep understanding of macromolecular interactions and cooperativity. He has also theorized and coins the terminology of "hydrophobic salts" in the literature for surfactants at low concentrations upon interaction with proteins. He is also extensively involved on biophysics of molecular diabetes on the area of protein glycation and studies the amyloid and fibril products in cellular and molecular actions. He has been elected to the UNESCO Chair on Interdisciplinary Research in Diabetes, at University of Tehran(ucird.ut.ac.ir), whereby he will lead a research study in molecular diabetes and define the theme "oxidative stress stimulates diabetes".

He has extended his research works on kinetic aspects of enzyme to study the enzyme function structure relationship as follows:

- Defining novel kinetic equations for the suicide inactivation and bisubstrate inactivation for enzymes
- Defining novel kinetic and thermodynamic theory to find the subsites of enzymes by calorimetry and binding pattern
- To design the artificial enzymes based on biomimetics systems

He has also extended his research on the digestibility, chaperon activity (anti-aggregation) and anti-oxidant activity of proteins and peptides derived from camel milk proteins for the production of the novel ingredients for producing functional foods as nutraceuticals.

To perform the aforementioned research works, he is working with the various physical techniques and methods such as: Isothermal titration calorimetry (ITC), Differential scanning calorimetry (DSC), uv-vis and fluorescence spectrophotometries, circular dichorism, densimetry, viscometry, tensiometry, temperature scanning spectrophotometer, cyclic voltametry, atomic force microscopy, transmission electron microscopy, dynamic light scattering, electrophoresis systems and computer facilities. He has also access to equilibrium dialysis technique and macromolecular interactions theories as well as chemical and biochemical procedures if required. He has established highly equipped laboratory for collaborations and working with different national and international research groups (bcl.ut.ac.ir). He is also the head of Center of Excellence in Biothermodynamics affiliated at University of Tehran (cebiotherm.ut.ac.ir).

Professor Ali A. Moosavi-Movahedi has been one of the pioneering scientists in establishing the first PhD programs in Biochemistry and Biophysics in Iran. He headed to initiate of a few institutional scientific centers in Iran.

He is also active in the area of popularization of science and he is currently the Editor-in-Chief, Journal of the named "Science Cultivation" [Science Cultivation is publishing with the following objectives: Policy research in science and technology, Promotion of science, assisting managers and policy makers in scientific centers, steering the direction of research for scientific elites and innovators in science and technology. This Journal attempts to create necessary context for the cultivation and fertilization of new area of sciences through monitoring, culture building and scientific capacity building] (sciencecultivation.ir).

He is one of the main scientists for supporting internationalization of science in Iran and the region.

He has headed to initiate a few scientific societies such as Iran Society of Biophysical Chemistry (isobc.com), Federation of Iran Biosocieties (firbs.ir) Iranian Peptide Society (<http://irpeptide.ir>). He has constituted awards such as ISOBC award for senior distinguished scientists for the past ten years and Moosavi-Movahedi Award for young distinguished scientists that confers the awards in ISOBC congress annually. He also supports to organize National, Regional and International conferences in the field of Biophysical Chemistry and Biomolecular Sciences.

PERSONAL RECORD

NAME Ali Akbar Moosavi- Movahedi
Date of Birth ۱۳th February ۱۹۵۳
Place of Birth Shiraz, Iran
Marital Status Married, ۳ children
Office Address Institute of Biochemistry & Biophysics
University of Tehran
Tehran - Iran
Telephone: +۹۸۲۱ - ۶۱۱۱۳۳۷۰, ۶۶۴.۳۹۵۷, ۶۱۱۱۳۳۸۱(lab)
Fax: +۹۸۲۱ - ۶۶۴.۴۶۸۰
E-mail: moosavi@ut.ac.ir
Website: ibb.ut.ac.ir/~moosavi
Appointments
Assistant Professor ۱۹۸۶-۱۹۹۲
Associate Professor ۱۹۹۲-۱۹۹۵
Professor Since ۱۹۹۶

Education:

B.Sc.: National University of Iran (Shahid Behshti University)
Major: Chemistry, (۱۹۷۵).

M.Sc: Eastern Michigan University, U.S.A.
Major: Chemistry, (۱۹۷۹).

Thesis: Adsorption of Hg (II) by a chelating resin, application for radiochemical separation of Mercury from biological samples.

Ph.D: University of Manchester, England.
Major: Biophysical Chemistry (۱۹۸۶)

Thesis: "Thermodynamic studies of the interaction between detergents and catalases".

VISITING PROFESSOR

- Department of Biochemistry & Molecular Biology, University of British Columbia, Vancouver, Canada (June-Sep ۲۰۰۰)
- Department of Chemistry, Biophysical Chemistry division, University of Muenster, Germany (August – Sep ۲۰۰۳)

MEMBERSHIP OF SCIENTIFIC SOCIETIES

۱. Biophysical Society U.S.A (Since ۱۹۸۷-۲۰۲۰)
۲. Protein Society U.S.A (Since ۱۹۹۰-۲۰۲۰)
۳. Iranian Chemical Society (Since, ۱۹۸۷)
۴. Iranian Biochemical Society (Since, ۱۹۹۲).
۵. Iran Society of Biophysical Chemistry (President of the society).
۶. Associate Member of the International Center for Theoretical Physics (ICTP), Italy (۱۹۹۴-۲۰۰۲)

EXPERIENCES & ACTIVITIES

- Research, Teaching, Development and Administration ۱۹۷۹ till date.
- Vice-Chancellor for Research, University of Tehran, ۱۹۹۲-۱۹۹۶ and ۲۰۰۵- ۲۰۰۸
- Rector of IBB, ۱۹۹۶-۲۰۰۱, ۲۰۰۳- ۲۰۰۵, ۲۰۱۶-until now
- Teaching courses: Biophysical Chemistry (M.Sc),Physical Chemistry of Protein (Ph.D), Advance Biophysical Chemistry (Ph.D), Biothermodynamics (Ph.D)
- Editorial Board of Iranian J.of Chemistry and Chemical Eng.
- Editor-in-Chief, Quarterly Journal of Rahyaft (۲۰۰۱-۲۰۱۰).
- Editor-in-Chief, Science Cultivation , The Journal of Enculturation and Policy Making of Science, Innovation and Technology. sciencecultivation.ir
- Editorial Board Member of Journal of Iranian Chemical Society (JICS), Springer.
- Editorial Board Member of International Journal of Biological Macromolecules, Elsevier
- Editorial Board Member of Avicenna Journal of Medical Biotechnology.
- Editorial Board Member of Biomacromolecular Journal (BMMJ).
- Regional committee member for Asia and the Pacific, ICSU(International Council for science) [۲۰۰۵-۲۰۱۱]. He is already the president of national member committee of ICSU(Changed name to ISC) at University of Tehran.
- Member of Iran Academy of Sciences
- Fellow of The World Academy of Science (TWAS)
- Fellow of Islamic World Academy of Sciences
- Chair of Center of Excellence in Biothermodynamics in Iran
- Chairholder of UNESCO Chair on Interdisciplinary Research in Diabetes at University of Tehran, Iran

AWARDS

- ۱) Successful completed research project entitled "The physico – chemical studies on the interaction between histone H¹ and surfactants"was selected by University of Tehran. The minister of higher education conferred the prize, ۱۹۹۰ and also award of International Khawarazmi Prize in ۱۹۹۰.
- ۲) University of Tehran selected successful completed research project entitled "The effect of ionic strength on the interaction of catalases with sodium n–dodecyl sulfate". The minister of higher education conferred the prize, ۱۹۹۲.
- ۳) University of Tehran selected successful completed research project entitled "Thermodynamic studies on the interaction between Histones and dodecyl trimethylammonium bromide". The minister of higher education conferred the prize, ۱۹۹۳.
- ۴) Successful completed research project entitled "The Physico-Chemical studies on the interaction between adenosine deaminase and nucleosides" was selected by University of Tehran, ۱۹۹۵.

۵) Successful completed research project entitled "Binding affinity for glucose oxides in the presence of sodium n-dodecyl sulphate" was selected by University of Tehran, ۱۹۹۷.

۶) University of Tehran selected successful completed research project entitled "Thermodynamics and kinetics of denaturation of catalase and peroxides", ۱۹۹۸.

۷) Successful completed research project entitled "Mechanistic characterization for two and multi states denaturation of protein" was selected by University of Tehran, ۱۹۹۹.

۸) Successful completed research project entitled "Elucidation of substrate functional varieties on enzyme action mechanism" was selected by University of Tehran, ۲۰۰۳.

۹) The First Class Medal of Research, University of Tehran, ۲۰۰۳

۱۰) Medal Awarded for Distinguished scientist from University of Tehran in ۵th National Festival of Distinct Researchers, Tehran, ۲۰۰۴.

۱۱) The First Rank Award of Razi Medical Science National Festival, ۲۰۰۵

۱۲) In recognition of utmost endeavour in the field of popularization of science in the society, ۹th award of the Iranian Society of Popularization of Science conferred to

A.A. Moosavi-Movahedi, ۲۰۰۷

۱۳) In recognition of scientific contribution in the field of Biochemistry and Molecular Biology, Elsevier-Scopus award is conferred to **A.A. Moosavi-Movahedi**, ۲۰۰۷

۱۴) In recognition of scientific contribution in the field of Bioscience, ۹th Avicenna Festival First Rank Award for Top Researcher is conferred to **A.A. Moosavi-Movahedi**, ۲۰۰۸

۱۵) In recognition of top research contribution in the field of Science and Bioscience, ۱۰th National Research Festival; Ministry of Science, Research and Technology of Iran is conferred the first rank award and national eminent researcher ۲۰۰۹ to **A.A. Moosavi-Movahedi**

۱۶) In recognition of top scholar and worldwide research contribution in the field of Science and Bioscience, University of Tehran is conferred the highest academic position of 'Professor of Eminence' to **A.A. Moosavi-Movahedi**, ۲۰۱۰

۱۷) In recognition of leading professor in the field of Science, Iran National Elites Foundation is conferred the award of "Prominent Professor" to **A.A. Moosavi-Movahedi**, ۲۰۱۲

۱۸) International Festival of University of Tehran First Rank Award conferred to **A.A. Moosavi-Movahedi** for top ESI scientist, ۲۰۱۳. This ranking is continued until now

۱۹) **A.A. Moosavi-Movahedi** elected as TWAS (The World Academy of Sciences) Fellow ۲۰۱۵

۲۰) **A.A. Moosavi-Movahedi** elected as Fellow of the Islamic World Academy of Sciences ۲۰۱۶

۲۱) **A.A. Moosavi-Movahedi** elected as a distinguished National Chemist by Iranian Chemical Society ۲۰۱۷

۲۲) In recognition of leading professor for lifetime achievements in Chemistry is conferred the COMSTECH Award to **A.A. Moosavi-Movahedi**, ۲۰۲۱

RESEARCH PROJECTS LEADER

- ۱) **A.A. Moosavi–Movahedi**, Completed ۱۹۹۰
Institute of Biochem. and Biophys., University of Tehran, Kharazmi awarded
"Physico – Chemical studies on the interaction between calf thymus histones and surfactants" University Of Tehran, Prize
- ۲) **A.A. Moosavi–Movahedi**, Completed ۱۹۹۲
Institute of Biochem. and Biophys., University of Tehran, awarded
"The effect of ionic – strength on interaction between catalases and sodium n- dodecyl sulphate".
- ۳) **A.A. Moosavi–Movahedi**, Completed ۱۹۹۳
Institute of Biochem. and Biophys., University of Tehran, awarded
"Thermodynamic studies on the interaction between Histones and dodecyl trimethylammonium bromide."
- ۴) **A.A. Moosavi–Movahedi**, and Professor G.H. Hakimelahi, Completed ۱۹۹۴
Institute of Biochem. and Biophys., University of Tehran, awarded.
"The Physico – Chemical studies on the interaction between adenosine deaminase and nucleosides."
- ۵) **A.A. Moosavi–Movahedi**, Completed ۱۹۹۶
Institute of Biochem and Biophys., University of Tehran, awarded
"The affinity binding for glucose-oxidase in the presence of sodium n-dodecyl sulfate".
- ۶) **Ali.A. Moosavi – Movahedi** and Professor B.Farzami, Completed ۱۹۹۶
Institute of Biochem. & Biophys. and Medical Science Department, University of Tehran
"Mechanistic studies of the interaction between Ca^{+} with calmodulin and the gap junction proteins".
- ۷) **A.A. Moosavi–Movahedi**, Completed ۱۹۹۶
Institute of Biochem. and Biophys., University of Tehran
"The effect of folded histone H1 with DNA and Core"
- ۸) **A.A. Moosavi–Movahedi** and Professor Z.H. Zaidi, Completed ۱۹۹۷
Institute of Biochem. And Biophys., University of Tehran and HEJ Research Institute of Chemistry, University of Karachi, Pakistan.
"The structural analysis of avian hemoglobins."
- ۹) **A.A. Moosavi–Movahedi**, Completed ۱۹۹۷
Institute of Biochem. And Biophys. University of Tehran, awarded ۱۹۹۸
"Thermodynamic and kinetic of denaturation of catalase and peroxidase".

۱۰) **A.A. Moosavi-Movahedi**, Completed ۱۹۹۶

Institute of Biochem. and Biophys. , University of Tehran, awarded ۱۹۹۹

"Mechanistic characterization for two and multi states denaturation of protein".

۱۱) **A.A. Moosavi-Movahedi**, Completed ۲۰۰۰

Institute of Biochem. and Biophys.,University of Tehran

"The effect of chemical and physical factors on the DNA structure and their interaction on DNA – protein complexes"

۱۲) **A.A. Moosavi-Movahedi**, Completed ۲۰۰۱

Institute of Biochem. and Biophys. , University of Tehran,

"Inhibition, activation and modification of adenosine deaminase by nucleosides and chemical modifiers"

۱۳) **A.A. Moosavi-Movahedi**, Completed ۲۰۰۲

Institute of Biochem. And Biophys., University of Tehran

"Elucidation of substrate functional varieties on the enzyme action mechanism"

۱۴) **A.A. Moosavi-Movahedi**, Completed ۲۰۰۲

Institute of Biochemistry and biophysics, University of Tehran

"Thermodynamic domains and subdomains analysis of human transferrin"

۱۵) **A.A. Moosavi-Movahedi**, Completed ۲۰۰۳ National project

"Practical plan for publicizing the specific subjects through the public media"

۱۶) **A.A. Moosavi-Movahedi**, Completed ۲۰۰۳

Institute of Biochem. and Biophys.,University of Tehran

"Structural studies on hemoproteins upon interaction with surfactants"

۱۷) **A.A. Moosavi-Movahedi**, Completed ۲۰۰۵

Institute of Biochemistry and Biophysics, University of Tehran

"Molten globule states of proteins induced by surfactants"

۱۸) **A.A. Moosavi-Movahedi**, F. Ahmad ,Completed ۲۰۰۶

International project entitled "Stabilization of industrial and therapeutical enzymes by osmolytes" was approved supported financially by Iran National Science Foundation (INSF). This project is between Dept of Bioscience, Jamia Millia Islamia, New Delhi, India and Institute of Biochemistry and Biophysics, University of Tehran, Iran

۱۹) **A.A. Moosavi-Movahedi** ,Completed ۲۰۰۷

Institute of Biochemistry & Biophysics, University of Tehran,

"Structural elucidation on amine oxidase in the presence and absence of different substrates and denaturants". Joint Project with Professor G. Floris, Italy

۲۰) **A.A. Moosavi-Movahedi** , Completed ۲۰۰۸

International joint project, Institute of Biochemistry and Biophysics, University of Tehran;
Institute of Biochemistry, National Academy of Science, Yerevan, Armenia;
Department of Chemical Sciences, University of Camerino, Camerino, Italy
"Interaction of adenosine deaminase with inhibitors and substrate analogs.

۲۱) **A.A. Moosavi-Movahedi** , Completed ۲۰۰۸

Institute of Biochemistry and Biophysics, University of Tehran
"Structural and Functional of Proteins upon interactions with sugars"

۲۲) **A.A. Moosavi-Movahedi** , Completed ۲۰۰۸

"Design and elucidation of artificial enzymes" was approved and supported financially by Iran National Science Foundation (INSF). This project was performed at Institute of Biochemistry and Biophysics, University of Tehran

۲۳) **A.A. Moosavi-Movahedi**, Completed ۲۰۰۸

"Role of nutrition, drugs, environmental factors on diminishing effects of smoke cigarette on human health" was approved and supported financially by Iran Dokhiani Company, Ministry of Science, Research and Technology and University of Tehran. This project was performed at Institute of Biochemistry and Biophysics, University of Tehran

۲۴) **A.A. Moosavi-Movahedi**, M. Shamsipur ۲۰۰۸

Interchange joint project between Institute of Biochemistry and Biophysics, University of Tehran and Department of Chemistry, Razi University.
"The stabilization and activation of enzyme via metal ions: industrial, medical and bioenvironmental application"

۲۵) **A.A. Moosavi-Movahedi** ۲۰۰۹

"Design and application of nano-biosensor based on silver nanoparticle_DNA for determination of heavy metals" This project was approved in Research council of the University of Tehran and financially supported by Bureau of Science and Technology, Presidency of Iran.

۲۶) **A.A. Moosavi-Movahedi** , T. Haertle, Completed ۲۰۱۰

"Molecular form, allergenicities and chaperone activities of alpha and beta casein from different sources" was approved and supported by Center for International Research and Collaboration (ISMO) and French Embassy in Tehran.

۲۷) **A.A. Moosavi-Movahedi**, Completed ۲۰۱۰

The Mechanistic study on proteins disaggregation by nanoligands (caseins as the chaperon, cyclodextrins, osmolytes, drugs and chemicals) was approved by IBB-University of Tehran

۲۹) **A.A.Moosavi-Movahedi** Completed ۲۰۱۱

This project entitled "The study of chaperon activity, digestibility, antioxidant activity of camel milk proteins and their peptides" was approved and supported financially by Iran National Science Foundation (INSF). This project was performed at Institute of Biochemistry and Biophysics, University of Tehran

۳۰) **A.A.Moosavi-Movahedi** Completed ۲۰۱۲

Structural and Mechanistic Studies on Proteins and Enzymes Aggregation by Nano-inhibitors. This project was approved by Institute of Biochemistry & Biophysics, University of Tehran.

۳۱) **A.A.Moosavi-Movahedi** Completed ۲۰۱۳

This project entitled "The modulate mechanism of glycation and fibrillation of proteins by antioxidants" was approved and supported financially by Iran National Science Foundation (INSF). This project was performed at Institute of Biochemistry and Biophysics, University of Tehran

۳۲) **A.A.Moosavi-Movahedi** Completed ۲۰۱۴

This project entitled "Fractionation and Identification of Bioactive Peptides from Enzymatic and Bacterial Proteolysis of Fermented Camel and Bovine Milk products" was approved and supported financially by Iran National Science Foundation (INSF). This project was performed at Institute of Biochemistry and Biophysics, University of Tehran

۳۳) **A.A.Moosavi-Movahedi** Completed ۲۰۱۶

This project entitled " Oxidative stress and toxics inhibition due to glycated blood proteins using natural products at molecular level " was approved and supported financially by Iran National Science Foundation (INSF). This project was performed at Institute of Biochemistry and Biophysics, University of Tehran

۳۴) **A.A.Moosavi-Movahedi** (collaboration with T. Haertle) Completed in ۲۰۱۷

International Project Title: The study of natural anti-oxidant effect on proteins due to inhibition of amyloid structures related to Diabetes . This project was approved and supported financially by International Scientific Studies and Collaboration (CISSC)—Ministry of Science, Research, and Technology in Iran.

This project was performed at Institute of Biochemistry and Biophysics, University of Tehran and partly in BIOPOLYMERES - INTERACTIONS -ASSEMBLAGES (BIA) INRA, BIA, BP۷۱۶۲۷ NANTES CEDEX ۰۳ France.

۳۵) **A.A.Moosavi-Movahedi** (collaboration with Dr P. Maghami and Co-workers) Completed in ۲۰۱۷

This project entitled " Destructive effects of MTBE on human blood proteins and provide modulation strategies" was approved and supported financially by Iran

Petrochemical Company, Mahshar, Bandar Imam. This project was performed at Institute of Biochemistry and Biophysics, University of Tehran

۳۶) **A.A.Moosavi-Movahedi** Completed ۲۰۱۷

This project entitled " Mechanistic Study of intermediates pathway on protein aggregation" was approved and supported financially by Iran National Science Foundation (INSF). This project was performed at Institute of Biochemistry and Biophysics, University of Tehran

۳۷) **A.A.Moosavi-Movahedi** (collaboration with Dr Sh. Ariaeenejad and Co-workers) Completed in ۲۰۱۸

This project entitled " Providing a precise and easy method for detecting fraud in meat products from different sources" was approved and supported financially by National Institute for Medical Research Development (NIMD). This project was performed at Institute of Biochemistry and Biophysics, University of Tehran.

This project is presented as a diagnostic kit

۳۸) **A.A.Moosavi-Movahedi** (collaboration with L. Saso) Completed in ۲۰۲۰

International Project Title: Unbalanced free radicals created by the effect of industrial products on proteins. This project was approved and supported by International Scientific Studies and Collaboration (CISSC)—Ministry of Science, Research, and Technology in Iran.

This project was performed at Institute of Biochemistry and Biophysics, University of Tehran, Iran and partly at Sapienza University of Rome, Italy

۳۹) **A.A.Moosavi-Movahedi** (collaboration with Co-workers) started June ۲۰۲۱ and Completed ۲۰۲۲

Title: Enhancement of curcumin bioavailability as a nutraceutical to modulate the stress and biomolecular diabetes complications: Product-oriented approach.

This project was approved and supported by Iran Vice-Presidency for Science and Technology. This project was performed at Institute of Biochemistry and Biophysics, University of Tehran.

۴۰) **A.A.Moosavi-Movahedi** (collaboration with Co-workers)

Title: Mechanistic study of natural antioxidants (NAOs) on inhibiting the formation of free radicals and their impacts on oxidative stress related diseases (OSRD)

This project was approved by INSF-NSFChina, started at ۲۰۲۲.

POSTGRADUATE TEACHING EXPERIENCE

Supervised MSc Students

۱) M. T. Goodarzi (۱۹۸۹)

Physico-chemical studies on the interaction of the histone H₁ and sodium n-dodecyl sulphate.

- ۲) M. R. Housandokht (۱۹۹۰)
Thermodynamic study on the interaction of histone H^۲B and sodium n-dodecyl sulphate.
- ۳) M. R. Razeghifard (۱۹۹۱)
Structural analysis of histones by sodium n-dodecyl sulphate.
- ۴) S. Ghobadi (۱۹۹۱)
Physico-chemical studies on the interaction of catalase and sodium n-dodecyl sulphate.
- ۵) B. Ranjbar (۱۹۹۱)
Activation analysis of catalase by sodium n-dodecyl sulphate.
- ۶) M. Farajollahi (۱۹۹۱)
Physico-chemical studies on the interaction of histone H^۲B and dodecyl trimethylammonium bromide.
- ۷) K. Nazari (۱۹۹۱)
Physico-chemical studies on the interaction of histone H^۱ and dodecyl trimethylammonium bromide.
- ۸) N. Farzi (۱۹۹۲) [accompanying with Dr A.A. Zaini]
Thermodynamic study on the interaction of histone H^۲A and dodecyl trimethylammonium bromide.
- ۹) M. Zahmatkesh (۱۹۹۲)
Thermodynamic study on the interaction of histone H^۳ and dodecyl trimethylammonium bromide.
- ۱۰) B. Samiei (۱۹۹۲)
Thermodynamic study on the interaction of adenosine deaminase and dodecyl trimethylammonium bromide.
- ۱۱) Y. Rahmani (۱۹۹۳)
Kinetic and thermodynamic studies of adenosine deaminase via interaction with cyclic and acyclic nucleosides.
- ۱۲) H. Khajepur (۱۹۹۳) [accompanying with Dr H.Naghibi]
The comparative study on hemoglobin and globin in the presence of dodecyl trimethylammonium bromide.
- ۱۳) M. Rezaei- Tavirani (۱۹۹۴)
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- ۱۴) A. A. Taleshi. (۱۹۹۴)
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- ۱۵) F. Tasht - Zarin (۱۹۹۴)
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- ۱۶) H. Rowshan (۱۹۹۵)
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- ۱۷) M. Mehrabi (۱۹۹۵) [accompanying with Dr H.Naghibi]
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- ۱۸) S. Mansouri (۱۹۹۰) [accompanying with Dr K.Zare]
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- ۱۹) M. Panjehpour (۱۹۹۷)
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- ۲۰) G. R. Habibi (۱۹۹۷)
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- ۲۱) K. Eisi (۱۹۹۷)
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- ۲۲) G. Masoodi (۱۹۹۷)
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- ۲۳) N. Zohari (۱۹۹۷)
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- ۲۴) J. Chamani (۱۹۹۷)
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- ۲۵) A. Arabzadeh (accompanying with Prof. Farsam) (۲۰۰۲)
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- ۲۶) F.Zoonuzi (۲۰۰۳)
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- ۲۷) P. Pirzadeh (۲۰۰۵)
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- ۲۸) A. Babaahmadi (۲۰۰۶)
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- ۲۹) F. Bostanian (۲۰۰۶)
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- ۳۰) F. Semsarha (۲۰۰۶)
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- ۳۲) H. Sepassi-Tehrani (۲۰۰۷)
Kinetic and conformational studies of adenosine deaminase upon interaction with diazepam derivatives (oxazepam, lorazepam).
- ۳۳) E. Sharifi (۲۰۰۸)
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- ۳۴) Y. Sefidbakht (۲۰۰۸)
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- ۳۵) F. Farivar (۲۰۰۸)

Kinetic study of histidine-heme in reverse nanomicelles of sodium dodecyl sulfate in organic media

۳۶) M. Esmaili (۲۰۱۰) [Joint supervision with Dr S.M. Ghafari]

The Study of Nanomicelle-Beta Casein and its Peptides from Camel Milk upon Interaction with Curcumin; Antioxidant Activity

۳۷) M. Ghasemi Aliabad (۲۰۱۰)

The structural and glycation studies on HSA upon incubation of morphine and codeine

۳۸) P. Bazzi (۲۰۱۰)

The study of curcumin effects on human serum albumin glycation & drug delivery of curcumin to colon using the alginate/pectin encapsulating beads

۳۹) L. Alaie (۲۰۱۱)

Study of thermal inactivation and conformational lock in carbonic anhydrase

۴۰) M. Goodarzi (۲۰۱۱) [Joint supervision with Dr A.A.Saboury]

Heme degradation during hemoglobin fructation: Emphasizing on reactive oxygen Species (ROS)

۴۱) E. Kachoie (۲۰۱۱)

Study of surface tension changes during conversion of insulin to the amyloid fibrils, and its correlation with toxicity of fibrils

۴۲) Z. Sattari (۲۰۱۲) [Joint supervision with Dr M.A. Hosseinpour Faizi]

The study of conformational lock of glucose oxidase via thermal inactivation

۴۳) M. Naderi (۲۰۱۲) [Joint supervision with Dr S. Hosseinkhani]

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۴۴) H. Ahmadzadeh (۲۰۱۲)

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۴۵) N. Salehi (۲۰۱۳)

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۴۶) S. Movaghati (۲۰۱۳)

Effect of surfactants on nano-amyloid fibrillation of human serum albumin

۴۷) M. Rahimi (۲۰۱۴) [Joint supervision with Dr S.M.Ghaffari]

Investigation of antioxidant and ACE (angiotensin converting enzyme) inhibitory effects of produced peptides from enzymatic hydrolysis of camel milk caseins

۴۸) M.R. Dashti (۲۰۱۵)

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۴۹) E.Vahdat (۲۰۱۶)

The effect of potassium sorbate on bovine serum albumin fibrillation and reduction by antioxidants

۵۰) M. Babaei (۲۰۱۷) [Joint supervision with Dr S.N.Seyed-Reihani]

The biophysical studies on diabetic red blood cell by optical tweezers

۵۱) R. Sattari (۲۰۱۷)

Physicochemical studies of purified myoglobin from different slaughtering upon interaction with lead salt

۵۲) E. Hosseini (۲۰۱۷)

The denaturation study of myoglobin by surfactants from different slaughtering methods

۵۳) N.Pishkari (۲۰۱۸)

The Study of Glycation of Hemoglobin with Fructose in the presence and absence of Methylparaben

- ٥٤) M. Hajizadeh (٢٠١٩)
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- ٥٥) A.R. Lagzian (٢٠٢٠)
Analysis of paladacycle ligand containing of amino acid Interaction with G-quadruplex structures of C₉orf72 and Human Telomere sequence (Htel) Genes
- ٥٦) Sh. Mohamadian [Joint supervision with Dr P. Norouzi] (٢٠٢٢)
The effect of magnetic field on structure- function and H₂O₂ concentration changes upon interaction on catalase
- ٥٧) S. Alaeen (٢٠٢٢)
Structural and activity study of catalase under the effect of polyethylene glycol crowding
- ٥٨) M. Nourazaran (٢٠٢٢)
Studying the inhibitory effect of melatonin and serotonin on the methylglyoxal mediated non-enzymatic glycation and aggregation of human α B-crystallin
- ٥٩) M. Edrisi (٢٠٢٢)
Evaluation of the ability of A²⁰²⁰ as a Metal Organic Framework (MOF) for controlling the side effects of doxorubicin upon interaction with human hemoglobin

Supervised Ph.D Students

- ١) M. R. Housaindokht (١٩٩٣) [Joint supervision with Dr J.Moghaddasi]
Thermodynamics and molecular binding studies of glucose oxidase by surfactants and urea.
- ٢) G.A.Naderi (١٩٩٤) [Joint supervision with Dr B. Farzami]
Purification and physico-chemical characterization of calmodulin for normal and abnormal conditions.
- ٣) H.Moghadamnia (١٩٩٥)
Kinetic study and thermal analysis of interaction of adenosine deaminase with nucleosides and denaturants.
- ٤) B. Shareghi (١٩٩٦)
Kinetic and thermodynamic studies on D-amino oxidase in the presence of temperature and chemical denaturants.
- ٥) A.K.Bordbar (١٩٩٦)
Physico-chemical studies on the structure of hemoglobin by ionic surfactants and sulphhydryl reagents.
- ٦) A.A. Saboury (١٩٩٦)
Thermodynamic studies of the interaction of urease with surfactants and inhibitors accompanying novel theories for ligand binding to macromolecule and protein denaturation.
- ٧) K. Nazari (١٩٩٦)
Thermodynamic and kinetic studies on the effect of surfactants on horseradish peroxidase.
- ٨) M. Ghadermarzi (١٩٩٧)
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- ٩) S.Z. Bathaie (٢٠٠٠)

The mechanistic study on DNA structure and DNA-H⁺ complex under the effect of different ligands.

۱۰) S. Ghobadi (۲۰۰۰)

Kinetic and thermodynamic studies on the interaction of glutamate dehydrogenase with nickel ions and surfactants.

۱۱) Mr. G. Ataei (۲۰۰۰)

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۱۲) S. Safarian (۲۰۰۱)

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۱۳) A. Mahmoudi (۲۰۰۱)

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۱۴) A. Mohammadi-Nejad (۲۰۰۲)

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۱۵) D. Ajloo (۲۰۰۲)

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۱۶) M. Sadeghi (۲۰۰۲) [Joint supervision with Dr H. Naderimanesh]

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۱۷) S. Z. Moosavi-Nejad (۲۰۰۲)

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۱۸) M. Rezaei-Tavirani (۲۰۰۲)

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۲۰) J. Chamani (۲۰۰۴)

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۲۱) M. Gharanfoli (۲۰۰۴)

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۲۲) Hong Jun (۲۰۰۶) [Joint supervision with Dr H. Ghourchian]

The kinetic, conformational and electrochemical studies on superoxide dismutase

۲۳) S. Hashemnia (۲۰۰۷) [Joint supervision with Dr H. Ghourchian]

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۲۴) M. Amani (۲۰۰۷)

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۲۵) N. Sattarahmady (۲۰۰۷)

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۲۶) A. Mollaei (۲۰۰۷) [Joint supervision with Dr H. Ghourchian]

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۲۷) K. Mahnam (۲۰۰۸)

Thermodynamics and kinetics studies and computer calculation of adenosine deaminase : Modification by Woodward reagent K and determination of the effective factors in protein modification

۲۸) A. Barzegar (۲۰۰۸) [Joint supervision with Dr M.R.Ganjali]

Study of the Physicochemical, Electrochemical Properties and Nanostructural Peptide of Alcohol Dehydrogenase (ADH)

۲۹) P. Daneshgar (۲۰۰۹) [Joint supervision with Dr P. Norouzi]

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۳۰) M. Salami (۲۰۰۹) [Joint supervision with Dr M.R. Ehsani]

Bioactive peptide production and fractionation from hydrolysis of camel milk proteins

۳۱) S.J. Mousavy (۲۰۰۹) [Joint supervision with Dr G.H. Riazi]

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۳۲) J. Badraghi (۲۰۰۹) [Joint supervision with Dr A.A. Saboury]

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۳۳) A. Jamalian (۲۰۱۱) [Joint supervision with Dr A. Shafiei]

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۳۴) Sh. Arieenejad (۲۰۱۲) [Joint supervision with Dr Jamili]

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۳۵) H. Hadi Alijanvand (۲۰۱۲)

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۳۶) A. Fallah-Bagheri (۲۰۱۳) [Joint supervision with Dr A.A. Saboury]

Denaturation and Reversibility of Human Carbonic Anhydrase II upon effect of nanoligands

۳۷) M. Moslehi-Shad (۲۰۱۳) [Joint supervision with Dr M.R. Ehsani]

Fractionation and Identification of Bioactive Peptides from Lactic Acid Bacterial Proteolysis of Fermented Bovine and Camel Milk

۳۸) F. Ghamari (۲۰۱۳) [Joint supervision with Dr S.M. Ghaffari]

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۳۹) H. Sepassi-Tehrani (۲۰۱۳) [Joint supervision with Dr H. Ghourchian]

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٤٠) H. Zare (٢٠١٣)

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٤١) F. Farivar (٢٠١٣)

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٤٢) M.Bohlooli (٢٠١٣)

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٤٣) F.Taghavi (٢٠١٣)

The effect of food preservatives on human serum albumin glycation and nanofibrils formation, Modulate mechanism by antioxidants

٤٤) Y.Sefidbakht (٢٠١٣) [Joint supervision with Dr S. Hosseinkhani]

The Effects of ٩٤٠ MHz Electromagnetic field (EMF) on the structure and function of firefly luciferase, including cellular studies

٤٥) R. Hosseinzadeh (٢٠١٤)

Studies on the effect of BTEXs compounds on the structure and function of human hemoglobin by developing of gas chromatographic and electrochemical methods using mixed metal oxide nanoparticles

٤٦) A. Banaie (٢٠١٥) [Joint supervision with Dr H. Ghourchian]

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٤٧) L.Fotouhi (٢٠١٥) [Joint supervision with Dr A.A.Saboury]

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٤٨) M.Mazaheri (٢٠١٥) [Joint supervision with Dr A.A.Saboury]

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٤٩) A.H.Keyhan (٢٠١٥)

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٥٠) A. Khatibi (٢٠١٥)

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٥١) M. Valipour (٢٠١٦)

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٥٢) Gh. Hosseinzadeh (٢٠١٦) [Joint supervision with Dr A.Maghari]

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٥٣) R. Jahanbani (٢٠١٦) [Joint supervision with Dr S.M. Ghaffari]

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- ۰۴) E.Najd Grami (۲۰۱۷)
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- ۰۵) R. Karamzadeh (۲۰۱۷) [Joint supervision with Dr Gh. Hosseini Salekdeh]
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- ۰۶) F. Mofidi-Najar (۲۰۱۷)
Biophysical chemical investigation of curcumin upon interaction with pure and glycosylated catalase using experimental and computational methods
- ۰۷) J. Rafiei (۲۰۱۷) [Joint supervision with Dr K.Yavari]
The Study of different concentrations of deuterium depleted water on hemoglobin structure and function: gamma-ray irradiation approach
- ۰۸) V. Sheikhasani (۲۰۱۸) [Joint supervision with Dr N. Seyedreihani]
Mechanical study of the effect of statin drugs on membrane deformability of single red blood cells using optical tweezers
- ۰۹) L. Alaei (۲۰۱۹)
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- ۱۰) S. Hadi Alijanvand (۲۰۲۰)
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- ۱۱) M. Qaffary (۲۰۲۱) [Joint supervision with Dr Kh.Khajeh]
Comparison of fibrillation of lipase and its mutant under the effects of osmolytes
- ۱۲) S. Nikoo (۲۰۲۱) [Joint supervision with Dr A. Maghari]
Theoretical and experimental studies of lysozyme glycation in the absence and presence of curcumin and dimethyl curcumin
- ۱۳) P. Arghavani (۲۰۲۲)
Studying fibrillation of monomer Transthyretin in the presence of magnetic nano-particles covered by different coats
- ۱۴) Z. Khoshkam (۲۰۲۲) [Joint supervision with Dr M. Habibi-Rezaei]
Investigation on the effects of fine particulate matters (PM_{2.5}) of Tehran on the pathogenesis of Sporadic Alzheimer's disease (SAD) caused by heme degradation and hypoxia
- ۱۵) S. Movaghati (۲۰۲۳)
Investigation of the Glyphosate's effect on amyloid fibrillation pathway of BSA, within surface parameters and structure changes studies
- ۱۶) E. Hosseini (Current)
- ۱۷) M. S. Nadimifar (Current)
- ۱۸) A. Amiri (Current)
- ۱۹) B. Davaeil (Current)
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Co-Chaired by M. Mazaheri

Collaborations with Co-workers

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Co-Chaired by F. Attar

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٢) M.N. Jones, A. Finn, **A.A. Moosavi-Movahedi**, B.J. Waller, "The activation of *Aspergillus niger* catalase by sodium n – dodecyl sulphate" *Biochim. Biophys. Acta* ٩١٣, ٣٩٥-٣٩٨ (١٩٨٧)

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- ۱۵۹) **J. Badraghi, A. A. Moosavi-Movahedi, A.A. Saboury, F. Farivar, A. Shrifzadeh** “Aggregation and disaggregation of insulin by different concentration of sodium dodecyl sulphate: A spectroscopic study” J. Iran. Chem. Soc., Vol. ۶, Suppl., page S۲۴۰ (۲۰۰۹). ۳rd International Congress of Biochemistry and Molecular Biology, Tehran, Iran, ۱۶-۱۹ November ۲۰۰۹.
- ۱۶۰) **P. Daneshgar, P. Norouzi, A.A. Moosavi-Movahedi, M. R. Ganjali** “Estimation of binding parameter of paracetamol with normal and glycosylated Human Serum Albumin” J. Iran. Chem. Soc., Vol. ۶, Suppl., pages S۲۴۰-S۲۴۱ (۲۰۰۹). ۳rd International Congress of Biochemistry and Molecular Biology, Tehran, Iran, ۱۶-۱۹ November ۲۰۰۹.

۱۶۱) **M. Amani, R. Khodarahmi, M. Mehrabi, S. Ghobadi, A.A. Moosavi-Movahedi** "Irreversible thermal denaturation of human carbonic anhydrase" J. Iran. Chem. Soc., Vol. ۶, Suppl., page S۲۱۵ (۲۰۰۹). ۳rd International Congress of Biochemistry and Molecular Biology, Tehran, Iran, ۱۶-۱۹ November ۲۰۰۹.

۱۶۲) **M. Shirazi, M. Miroliaei, R. Yousefi, A.A. Moosavi-Movahedi, A. Eidi** "β-caseins inhibit the formation of amyloid fibrils in apo-forms of yeast alcohol dehydrogenase" J. Iran. Chem. Soc., Vol. ۶, Suppl., page S۶۱ (۲۰۰۹). ۳rd International Congress of Biochemistry and Molecular Biology, Tehran, Iran, ۱۶-۱۹ November ۲۰۰۹.

۱۶۳) **E. Amin, A.A. Saboury, H. Mansouri-Torshizi, A.A. Moosavi-Movahedi** "Potent inhibitory effects of benzyl and p-xylylidine-bis dithiocarbamate sodium salts on catecholase activity of mushroom tyrosinase" J. Iran. Chem. Soc., Vol. ۶, Suppl., page S۹۸ (۲۰۰۹). ۳rd International Congress of Biochemistry and Molecular Biology, Tehran, Iran, ۱۶-۱۹ November ۲۰۰۹.

۱۶۴) **A.A. Moosavi-Movahedi** "Detergency effect of nanofibrillar amyloid and molten globule-like state formation on glycation of human serum albumin" Symposium on Recent Trends in Biophysics, Banaras Hindu University, Varanasi-India, February ۱۳-۱۴, ۲۰۱۰ [Invited talk].

۱۶۵) **M. Ghasemi, M. Habibi-Rezaei, N. Sattarahmady, M. Amanlou, A.A. Moosavi-Movahedi** "The ability of morphine to inhibit glycation process in an albumin/glucose experimental model system" ۳rd International Conference on Advanced Technologies & Treatments for Diabetes. Basel, Switzerland, February ۱۰-۱۳, ۲۰۱۰.

۱۶۶) **R. Nasiri, M. Zahedi, H. Jamet and A.A. Moosavi-Movahedi** "Theoretical studies on the thermodynamics and kinetics of the lysine-arginine cross-links derived from alpha-oxoaldehydes: A new mechanism for glucosepane formation". The abstract published in proceeding of ۲۵th Molecular Modeling Workshop, Erlangen-Nuremberg, Germany. April ۴-۶, ۲۰۱۱.

۱۶۷) **A. Mohamadi-nejad and A. A. Moosavi-Movahedi** "Study of non-enzymatic glycosylation effects on the structure of human serum albumin via Differential Scanning Calorimetry" Clinical Biochemistry, Volume ۴۴, Issue ۱۳, Supplement, September ۲۰۱۱, Page S۲۵۸. ۴th International Congress of Biochemistry and Molecular Biology, Mashad, Iran, ۶-۹ September ۲۰۱۱.

۱۶۸) **R. Amjadi, H. Ghourchian, A. A. Moosavi-Movahedi** "Biochemistry study of nitrate effect in drinking water on human hemoglobin" Clinical Biochemistry, Volume ۴۴, Issue ۱۳, Supplement, September ۲۰۱۱, Page S۳۵۵. ۴th International Congress of Biochemistry and Molecular Biology, Mashad, Iran, ۶-۹ September ۲۰۱۱.

۱۶۹) **S. Farahi, M. Habibi-Rezaei, A. A. Moosavi-Movahedi** "Glucose Oxidase immobilization on amyloid nano-fibers" Clinical Biochemistry, Volume ۴۴, Issue ۱۳, Supplement, September ۲۰۱۱, Page S۲۱۴. ۴th International Congress of Biochemistry and Molecular Biology, Mashad, Iran, ۶-۹ September ۲۰۱۱.

۱۷۰) **F. Farivar, M. Salami, R. Sadeghi, A. A. Moosavi-Movahedi** "New biophysical insight on camel serum albumin" Clinical Biochemistry, Volume ۴۴, Issue ۱۳, Supplement, September ۲۰۱۱, Page S۲۵۴. ۴th International Congress of Biochemistry and Molecular Biology, Mashad, Iran, ۶-۹ September ۲۰۱۱.

۱۷۱) **A. Arasteh, M. Habibi-Rezaei, A. Ebrahim Habibi, A. A. Moosavi-Movahedi** "Bovine serum albumin aggregation: An optimizing approach" *Clinical Biochemistry*, Volume ۴۴, Issue ۱۳, Supplement, September ۲۰۱۱, Pages S۱۳۶-S۱۳۷. ۴th International Congress of Biochemistry and Molecular Biology, Mashad, Iran, ۶-۹ September ۲۰۱۱.

۱۷۲) **Amir Arasteh, Mehran Habibi-Rezaei, Azadeh Ebrahim-Habibi, Ali Akbar Moosavi-Movahedi** "Optimization of Bovine Serum Albumin Fibrillation: Use of response surface methodology and simple Congo red testing. The ۳۶th FEBS Congress "Biochemistry for Tomorrow's Medicine", Torino, Italy, June ۲۰-۳۰ ۲۰۱۱.

۱۷۳) F. Farivar, **A. A. Moosavi-Movahedi, A. A. Saboury** "Thermal and chemical unfolding of camel Serum albumin" Annual Meeting of The German Biophysical Society, Gottingen, Germany, ۲۳-۲۶ September ۲۰۱۲

۱۷۴) Y. Sefidbakht, S. Hosseinkhani, M. Torkzadeh-Mahani, R. Faraji-Dana, **A. A. Moosavi-Movahedi** "Mobile phone radiation effects on HEK۲۹۳T cells harboring luciferase reporter" Annual Meeting of The German Biophysical Society, Gottingen, Germany, ۲۳-۲۶ September ۲۰۱۲

۱۷۵) H. Ahmadzade Kermani, **A. A. Moosavi-Movahedi** "Micellar SDS – Acetyl imidazole – Hemin complex as a Peroxidase-like nano artificial enzyme" Annual Meeting of The German Biophysical Society, Gottingen, Germany, ۲۳-۲۶ September ۲۰۱۲

۱۷۶) **A.A.Moosavi-Movahedi** "Milk proteins and bioactive peptides in medicine application and social benefit" ۲nd International Seminar on New Paradigm and Innovation on Natural Sciences and Its Application, Semarang, Indonesia, October ۴, ۲۰۱۲ [Keynote Speaker]

۱۷۷) Faezeh Moosavi-Movahedi, A.A.Saboury, H. Hadi and **A.A.Moosavi-Movahedi** "A new mechanism for thermal denaturation of horse liver alcohol dehydrogenase" ۱۳th Iranian Conference of Biochemistry & ۱0th International Conference of Biochemistry and Molecular Biology, Yazd, April ۱۶-۱۹, ۲۰۱۳. Published in Iranian Journal of Biotechnology, Vol ۱۱ (۴۲), Supplement ۱, page ۱۲۵, ۲۰۱۳

۱۷۸) **A.A. Moosavi-Movahedi** " Biomimetic Science and Natural Technology" International congress on Natural Products, Mashhad, September ۱۱-۱۲, ۲۰۱۳ [Keynote Speaker]

۱۷۹) **A.A.Moosavi-Movahedi** " Science and Wisdom Innovation System" World Science Day for Peace and Development, Tehran, November ۱۸, ۲۰۱۳ [Key Speaker]

۱۸۰) **A.A.Moosavi-Movahedi** "Inhibitory of human serum albumin fibrillation and irreversibility by metabolites and antioxidants" ۲۰th Iranian Conference on Biomedical Engineering, Tehran, December ۱۸-۲۰, ۲۰۱۴ [Keynote Speaker]

۱۸۱) **A.A. Moosavi-Movahedi** "Biophysical Proteomics" The First Human Y Chromosome Proteome Project Symposium , Tehran, Jan ۱۱, ۲۰۱۴ [Keynote Speaker]

۱۸۲) L. Fotouhi, **A.A. Moosavi-Movahedi, S. Yousefinejad, M. Shourian, A.A. Saboury** "Comparison of heme degradation patterns during interaction of hemoglobin with n-alkyl sulfates" ۱۸th IUPAB Congress, Brisbane, Australia, ۳-۷ August ۲۰۱۴. [Awarded]

۱۸۳) A.H. Keihan , S. Sajjadi , **A. A Moosavi-Movahedi, K. Eskandari**, "Comparing the Effect of Three Different Ionic Liquids on the Electrocatalytic Performance of Prussian Blue/Carbon Nanotubes Composites", ۶0th Annual Meeting of the

International Society of Electrochemistry, Lausanne, Switzerland, ۳۱ August- ۵ September ۲۰۱۴.

۱۸۴) L. Fotouhi, A.A. Saboury, N. Salehi, M. Shourian, M. Habibi Rezaei and **A.A. Moosavi-Movahedi** “Study of heme degradation and ROS production upon interaction of hemoglobin with n-alkyl sulfates” ۱۲th International School of Biophysics, Primosten, Croatia, ۲۷ Sep-۶ Oct ۲۰۱۴. [Awarded]

۱۸۵) **A.A.Moosavi-Movahedi** “Biophysics and Metaphysics of light” in recognition of the International Year of Light (IYL ۲۰۱۵), Symposium on Light and Biology was held in Znján, October ۲۹-۳۰, ۲۰۱۵ [Key Speaker]

۱۸۶) **A.A.Moosavi-Movahedi** “Heat and Light” in recognition of the International Year of Light (IYL ۲۰۱۵), Symposium on Heat and Light was held at University of Tehran, Institute of Biochemistry and Biophysics, in Tehran, November ۱۱, ۲۰۱۵ [Keynote Speaker]

۱۸۷) **A.A.Moosavi-Movahedi** “Diabetes and Biomolecular Science” in recognition of Diabetes week in Iran, Symposium on Diabetes and Biomolecular Science was held at University of Tehran, Institute of Biochemistry and Biophysics, in Tehran, November ۲۵, ۲۰۱۵ [Keynote Speaker]

۱۸۸) **A.A.Moosavi-Movahedi** “Climate change and spread of diseases” ۳rd Conference on Climate Change and Global Warming, Keylagh, Farashband, Fars Province, Iran, March ۸-۹, ۲۰۱۶ [Keynote Speaker]

۱۸۹) **A.A.Moosavi-Movahedi** “Oxidative Stress Stimulates Protein Glycation” The ۲th Conference on Protein and Peptide Sciences, University of Isfahán, Iran, ۲۷-۲۸ April ۲۰۱۶ [Keynote Speaker]

۱۹۰) **A.A. Moosavi-Movahedi** “Bioactivity Characterizations of Peptides and Proteins in Camel Milk” ۲nd International Iranian peptide Conference and Humboldt- Kolleg entitled: Bioactive Molecules: Current Trends in Synthesis, Purification and Drug Delivery, Tehran ۹-۱۲ January ۲۰۱۷ [Key Speaker].

۱۹۱) **A.A.Moosavi-Movahedi** “Free Radicals: Diabetes and its Complications” Iran Academy of Science, Chemistry Symposium, Feb ۲, ۲۰۱۷ [Keynote Speaker]

۱۹۲) **A.A.Moosavi-Movahedi** “Medical Science and Interdisciplinary Science” Iran Medical Academy of Science, Basic Science Symposium, Feb ۶, ۲۰۱۷ [Keynote Speaker]

۱۹۳) **A.A.Moosavi-Movahedi** “۳۰ Years Research on Thermodynamics of Protein Denaturation” ۱۹th Iranian Congress of Chemistry, Shiraz, February ۲۱-۲۴, ۲۰۱۷ [plenary speaker]

۱۹۴) **Ali A. Moosavi-Movahedi** “Nutraceutical Effect of Bioactive Peptides and Antioxidants on Diabetic Complications” International Conference on Nutrition: from Laboratory Research to Clinical Studies, September ۶-۸, ۲۰۱۷, Mashhad, Iran [Keynote Speaker]

۱۹۵) **A.A. Moosavi-Movahedi** “Free Radicals: diabetes complications” ۲۱st Islamic World Academy of Sciences (IAS) International Scientific Conference, Konya, Turkey October ۶-۱۱, ۲۰۱۷ [Key Speaker].

۱۹۶) Y. Sefidbakht and **A.A. Moosavi-Movahedi** “Biophysical Outlook and Science Popularization of Bioelectromagnetics” ۴th Iranian Conference in Bioelectromagnetics, ۲۸ February -۱ March ۲۰۱۸, Tehran, Iran [Keynote Speaker]

۱۹۷) **A.A.Moosavi-Movahedi** “Protein Aggregation: Free Radicals Induction” ۳rd Conference on Protein & Peptide Sciences, April ۲۵-۲۶, ۲۰۱۸ Shiraz, Iran [Plenary Lecture]

۱۹۸) **A. A. Moosavi-Movahedi** “Biophysical Approach to Diabetes Complications”

- International workshop on “Modern Problems of Biophysics, Biotechnology and Environmental Health” August ۶-۸, ۲۰۱۸ in Garni, Armenia [Key Speaker]
- ۱۹۸) E. Hosseini, R. Sattari, Sh. Ariaeenejad, M. Salami, N. Poursasan, L. Fotouhi, **A. A. Moosavi-Movahedi** "The Conformational and Functional Changes of Myoglobin from Sheep due to Different Slaughtering Methods " International workshop of UNESCO/UNITWIN Network on PhD Education and Research in Biophysics, Biotechnology and Environmental Health, August ۶-۸, ۲۰۱۸ in Garni, Armenia[Awarded]
- ۱۹۹) E. Hosseini, R. Sattari, Sh. Ariaeenejad, M. Salami, N. Poursasan, L. Fotouhi, **A. A. Moosavi-Movahedi** "The status of Myoglobin aggregation in different slaughtering methods" ۱۴th International School of Biophysics ۱۴th International School of Biophysics, Aug. ۲۳- Sept. ۰۱ ۲۰۱۸, University of Split, Croatia
- ۲۰۰) **A.A.Moosavi-Movahedi** " Biomimetics and Lifestyle" ۲۰th National and ۸th International Congress on Biology August ۲۲-۲۴, ۲۰۱۸, Maragheh, Iran [Plenary Lecture]
- ۲۰۱) **A. A. Moosavi-Movahedi** “Thirty-five Years of Research on Protein” The ۴th Conference on Protein and Peptide Sciences, University of Isfahan, Isfahan, Iran ۱&۲ May ۲۰۱۹. [Plenary Lecture]
- ۲۰۲) **A. A. Moosavi-Movahedi** “Lifestyle: Open new outlooks on antioxidants” Summit on lifestyle,health and wellness,۲۷-۲۸ August ۲۰۱۹, Sepidan,Fars,Iran [Plenary Lecture]
- ۲۰۳) **A. A. Moosavi-Movahedi** “ Science Integration and Road Map of the Future” National Conference on the Role of Interdisciplinary Studies in the Scientific Development and Entrepreneurship, University of Tehran, Tehran,Iran (۲۰۲۰) [Plenary Lecture]
- ۲۰۴) M. Edrisi, Agustina L N Aminin, M. Qafary, P. Arghavani, **A. A. Moosavi-Movahedi** “The Physico-Chemical Study on Hemoglobin upon Interaction with ۲-hydroxy-۱, ۴-naphthoquinone” ۱۶th Virtual Conference of Iran Society of Biophysical Chemistry (at International level), Feb ۴-۵,۲۰۲۱, Zanjan,Iran [Awarded]
Published in Biomacromolecular Journal(BMMJ) Vol ۷(۱), ۱۶(۲۰۲۱)
- ۲۰۵) F. Moosavi-Movahedi,, A. A. Saboury, R. Yousefi, **A. A. Moosavi-Movahedi** “The Role of Copper Ion Concentrations on The γ -Crystallin” ۱۶th Virtual Conference of Iran Society of Biophysical Chemistry (at International level), Feb ۴-۵,۲۰۲۱, Zanjan,Iran
Published in Biomacromolecular Journal(BMMJ) Vol ۷(۱), ۱۱ (۲۰۲۱)
- ۲۰۶) P. Arghavani, S. A. Ghadami, M. Habibi-Rezaei, A. Badiei, **A. A. Moosavi-Movahedi**” A Designed and Synthesized Hydrophobic Nano-Inhibitors for Transthyretin Aggregation” ۱۶th Virtual Conference of Iran Society of Biophysical Chemistry (at International level), Feb ۴-۵,۲۰۲۱, Zanjan,Iran
Published in Biomacromolecular Journal(BMMJ) Vol ۷(۱), ۱۲ (۲۰۲۱)
- ۲۰۷) S. Alaeen, **A. A. Moosavi-Movahedi** “Macromolecular Crowding Effects on The Activity and Conformational Structure of Catalase” ۱۶th Virtual Conference of Iran Society of Biophysical Chemistry (at International level), Feb ۴-۵,۲۰۲۱, Zanjan,Iran
Published in Biomacromolecular Journal(BMMJ) Vol ۷(۱), ۱۱۸ (۲۰۲۱)

۲۰۸) **A.A. Moosavi-Movahedi** “Wisdom-based Outlook on Biological Sciences”
۲۱th National & ۹th International Virtual Congress on Biology, Feb ۱۶-۱۹, ۲۰۲۱,
Semnan, Iran [Plenary Speaker]

۲۰۹) **A.A. Moosavi-Movahedi** “ The role of advanced precision instruments in
scientific development and national pride” The first National Virtual Conference on
Instrumentation & Measurement Technology, March ۳-۴, ۲۰۲۱, Shiraz [Plenary
Speaker]

۲۱۰) **A.A. Moosavi-Movahedi** "Pillars of human upbringing from childhood to old age"
۱۰th Virtual Conference of the Islamic-Iranian Model of Progress May ۱۹-۲۰, ۲۰۲۱
Tehran, Iran (Keynote lecture)

۲۱۱) **A.A. Moosavi-Movahedi** " Diplomacy and scientific authority in the horizon of the
Iranian Islamic model of progress " ۱۱th Conference of the Islamic-Iranian Model of
Progress May ۱۸-۱۹, ۲۰۲۲ Tehran, Iran (Keynote lecture)

۲۱۲) **A.A. Moosavi-Movahedi** "Thirty-five years Research on Protein Science in
Biophysical Chemistry Lab " ۱۷th National and ۲nd International Conference of Iran
Society of Biophysical Chemistry September ۶-۷, ۲۰۲۲, Guilan University, Rasht, Iran
(Keynote lecture)

۲۱۳) **A.A. Moosavi-Movahedi** “The Role of Antioxidants and Nutraceuticals in
Promotion of Lifestyle and Health “۲۳rd international conference on the theme of
“Science, Technology and Innovation (STI) Under Ever Changing Global Events”
organized by Islamic World Academy of Sciences, Rabat, Morocco, ۱۸ – ۱۹ October
۲۰۲۲ (Keynote lecture)

۲۱۴) **A.A. Moosavi-Movahedi** “Halal Products Biomolecular Science and Healthy Life”
۲۴rd IAS international conference on the theme of “Challenges to Promote Science &
Technology for Socio-Economic Development in OIC Countries” organized by Islamic
World Academy of Sciences, Karachi, Pakistan, ۷-۸ March ۲۰۲۳ (Keynote lecture)

SCIENTIFIC DISCUSSIONS (Persian Forum):

— **A.A. Moosavi–Movahedi**, et al. "Global science contribution: priority of country
development" Rahyaft, Science Policy Quarterly ۲۸, ۱۴۳-۱۶۰ (۲۰۰۳).

— **A.A. Moosavi–Movahedi**, et al. "Institutionalization of science, the status of
scientists in Iran" Rahyaft, Science Policy Quarterly ۲۹, ۱۱۳-۱۳۴ (۲۰۰۳).

- **A.A. Moosavi–Movahedi**, et al. "Scientific Dialogue; The Future Outlook for Science
and Technology" Science Cultivation ۱(۲), ۴۸-۵۷ (۲۰۱۱)

WORKSHOP PRESENTATIONS:

- ١) Protein–Ligand interaction, presented in workshop section, ٧th "International Symposium Protein Structure Function Relationship", Karachi, Pakistan, January ٢٠-٢٩ (٢٠٠٣).
- ٢) Educational Workshop on Biological Microcalorimetry, University of Tehran, IBB, March ٨-١٢ (٢٠٠٣).
- ٣) Educational Workshop on Research Method and Methodology, University of Tehran, IBB, October ٢٢-٢٣ (٢٠٠٣).
- ٤) ٢nd Educational Workshop on Research Method and Methodology, University of Tehran, IBB, Dec ٢١-٢٢ (٢٠٠٣).
- ٥) ٣rd Educational Workshop on Research Method and Methodology, University of Tehran, IBB, Feb, ٢٥-٢٦ (٢٠٠٤).
- ٦) ٤th Educational Workshop on Research Method and Methodology, University of Tehran, IBB, April ٢٩-٣٠ (٢٠٠٩).
- ٧) ٥th Educational Workshop on Research Method and Methodology, University of Tehran, IBB, Dec ٩-١٠ (٢٠٠٩).