

NEDA AKBARI

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SUMMARY

Accomplished and dedicated microbiologist with more than 10 years of experience in microbiology, molecular genetics and biochemistry-based research methods. Demonstrated success in isolation of microorganisms, screening and evaluation of bacterial enzymes, gene cloning, expression and purification. Experienced in optimization of experiment using statistical methods and quality control in pharmaceutical industry. Proven leadership skills, adept at providing the training and support needed to achieve key operational goals. Possesses enthusiastic team player and time management skills; effectively priorities competing demands in fast-paced, results-driven environments.

EXPERIENCE

04/2104 – CONTINUE

ASSISTANT RESEARCHER, ISLAMIC AZAD UNIVERSITY ARAK BRANCH, ARAK

- Managed projects according to schedule and budget demands while handling complex concerns in an independent manner.
- Collaborated with staff to develop and implement best practices and accomplished all team goals.
- Isolation and identification of probiotic strains from traditional dairy products.
- Evaluating of the hydrolytic enzymes from the probiotics.
- Optimization of probiotics strains growth
- Evaluating of the probiotic effects on hormones level like ACTH, T3 and T4 under stress condition in male wistar rats.
- Evaluating of the probiotic effects on wound healing in male wistar rats.
- Evaluating of the probiotic effects on diabetes in male wistar rats
- Evaluating of the probiotic effects on anxiety and epilepsy in male wistar rats
- Preparing milk fermented products using the probiotic strains

04/2013 – 11/2014

MICROBIOLOGIST, IMEN PHARMED IRANIAN (IPI), TEHRAN

- Culture of *Mycobacterium Bovis* (BCG)
- Formulation of BCG vaccine
- Supervisor of BCG vaccine production process

- Conduct research on optimization of BCG vaccine production in bioreactor
- Carried out quality control assessments for BCG vaccine

07/2011 – 03/2013

ASSISTANT RESEARCHER, TARBIAT MODARES UNIVERSITY, TEHRAN

- Designed and executed study approaches.
- Screening and evaluation of serapeptidase enzyme production in *Serratia marcescens* ZF03
- Optimization of the serapeptidase production in bioreactor
- Collaborated with team members to initiate best practices to achieve organizational goals.

03/2012 – 03/2013

ASSISTANT RESEARCHER, TARBIAT MODARES UNIVERSITY, TEHRAN

- Researched and updated all required materials needed for project
- Gene cloning and expression of urate oxidase enzyme in *E.coli*
- Evaluation of urate oxidase enzyme activity as drug enzyme
- Purification of the enzyme
- Verified data integrity and accuracy

EDUCATION

1996 – 2000

BACHELOR OF SCIENCE, TEHRAN UNIVERSITY

Graduated with 16/20 GPA

2000-2003

MASTER OF SCIENCE, TEHRAN UNIVERSITY

- Thesis: Isolation of microorganisms which produce penicillin acylase from soil and optimization of enzyme production
- Coursework in: Physiology of microorganisms, ecology of microorganisms, molecular genetic and biotechnology of microorganisms
- Graduated with 18/20 GPA

2004-2009

PH. D, ISLAMIC AZAD UNIVERSITY, SCIENCE AND RESEARCH LIFTS

- Professional development completed in isolation and identification of microorganisms and their enzymes.
- Thesis: Isolation of lipase from local microorganisms and optimization of enzyme production using statistical method.
- Coursework in: Soil Microbiology, Advanced virology, Industrial microbiology, bacterial toxins
- Graduated with 18.3/20 GPA

SKILLS

- Self-motivated Team leadership
- Exceptional organizational & problem-solving skills
- Data analysis and management
- Skilled in computer programs
- Monitoring and identification of microorganisms in the environment
- DNA, RNA Isolation & Purification
- Spectrophotometric Techniques
- Molecular Cloning
- Culture medium design for microorganisms
- Optimization experiments
- Strong experience of teaching microbiology courses

HONORS

2004

Ranked 4nd among a 100 examinees for the Ph.D entrance exam in microbiology by the Ministry of Science, Research and Technology of Iran.

2000

Ranked 51st among a 6000 examinees for the M.Sc entrance exam in microbiology, held by the Ministry of Science, Research and Technology of Iran.

2000

Ranked 21st for student Olympiad in biology, held by the Ministry of Science, Research and Technology of Iran.

PUBLICATIONS:

N. Sattarahmady, M. Rezaie-Yazdi, G.H. Tondro, **N. Akbari**. "Bactericidal laser ablation of carbon dots: An in vitro study on wild-type and antibiotic-resistant *Staphylococcus aureus*" *Journal of Photochemistry & Photobiology, B: Biology*. 2017

Shabnam Sadoogh Abbasian, Ehsanollah Ghaznavi Rad, **Neda Akbari**, Hamid Abtahi," Overexpression and Enzymatic Assessment of Antigenic Fragments of Hyaluronidase Recombinant Protein From *Streptococcus pyogenes*" *Jundishapur J Microbiol*. 2015

Akbari Neda, Jafari Parvaneh, "Application of half fractional factorial design (H-FFD) and response surface methodology to high-level expression of lipase in *Escherichia coli*". *Molecular Pathophysiology Journal* 2014

Hooshang Niazi Amraii; Hamid Abtahi; Parvaneh Jafari, **Neda Akbari**, "In Vitro Study of Potentially Probiotic Lactic Acid Bacteria Strains Isolated from Traditional Dairy Products, *Jundishapur J Microbiol*. 2013

Azizpour MM, Hosseini SD, **Akbari N**, Basiri H, Nezamabadi M, Eskandari S, Sarikhani M. Amplification, cloning, and expression of *Brucella melitensis* bp26 gene isolated from Markazi province in order to produce BP26 recombinant protein. *Arak Medical University Journal* 2013

Maryam Monsef Shokri, Shahin Ahmadian , **Neda Akbari**, Khosro Khajeh "Hydrophobic substitution of surface residues affects lipase stability in organic Solvents" *Molecular Biotechnology*., 2013
Nasrin Mollania, Khosro Khajeh, Bijan Ranjbar, Fatemeh Rashno ,Neda Akbari, Mehrnoosh Fathi-Roudsari "An efficient in vitro refolding of recombinant bacterial laccase in *Escherichia coli*" *Enzyme and Microbial Technology*., 2013

Parisa Nasrollahi , Khosro Khajeh , **Neda Akbari** "Optimizing of the formation of active BMW-amylase after in vitro refolding" *Protein Expression and Purification*., 2012

Somayeh Daneshjoo, **Neda Akbari**, Abbas Akhavan Sepahi, Bijan Ranjbar, Ramezan-Ali Khavarinejad, Khosro Khajeh "Imidazolium chloride-based ionic liquid assisted improvement of lipase activity in organic solvents" *Eng. Life Sci.*, 2011

Neda Akbari , Somayeh Daneshjoo, Jafer Akbari, Khosro Khajeh "Isolation, Characterization, and Catalytic Properties of a Novel Lipase Which Is Activated in Ionic Liquids and Organic Solvents" *Appl Biochem Biotechnol*., 2011

Neda Akbari, Khosro Khajeh, Sasan Rezaie, Saeed Mirdamadi, Mahmoud Shavandi, Nasser Ghaemi, "High-level expression of lipase in *Escherichia coli* and recovery of active recombinant enzyme through in vitro refolding" *Protein Expression and Purification*., 2010

Neda Akbari, Khosro Khajeh, Nasser Ghaemi, Zahra Salemi," Efficient refolding of recombinant lipase from *Escherichia coli* inclusion bodies by response surface methodology" *Protein Expression and Purification*., 2010