Curriculum Vitae

Personal Data:

Name & Surname: Samira Choobani

Date & Place of Birth:1360/6/30, Tehran, Iran.

Gender: Female

Citizenship: Iranian

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Work address: Dept. of Physiology and Pharmacology, Pasteur Institute of Iran, No. 69, 12 Farvardin Ave, Tehran, IRAN. Postal code: 1316943551.

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Academic Record:

2025 Ph.D. student in Medical physiology, Shahid Beheshti university of medical scince, Tehran, Iran.

2000-2004 B.Sc in Biology, Azad University, Tehran, Iran.

2004-2007 M.Sc. in Animal Physiology, Azad University, Damghan, Iran.

EMPLOYMENT

- October 2007 up to now; Full time laboratory research at the Physiology & Pharmacology department of Pasteur Institute of Iran.

Publications:

- ***Choopani S***, Kiani B, Aliakbari S, Babaie J, Golkar M, Pourbadie HG, Sayyah M. Latent toxoplasmosis impairs learning and memory yet strengthens short-term and long-term hippocampal synaptic plasticity at perforant pathway-dentate gyrus, and Schaffer collatterals-CA1 synapses. Scientific report . 2023 Jun.
- Azizi Z, ***Choopani S***, Salimi M, Majlessi N, Naghdi N. Protein Kinase C Involvement in Neuroprotective Effects of Thymol and Carvacrol Against Toxicity Induced by Amyloid-β in Rat Hippocampal Neurons. Basic Clin Neurosci. 2022 May-Jun.

- Radpour M, ***Choopani S***, Pourbadie HG, Sayyah M. Activating toll-like receptor 4 after traumatic brain injury inhibits neuroinflammation and the accelerated development of seizures in rats. Exp Neurol. 2022 Nov.
- Azizi Z, Majlessi N, ***Choopani S***, Naghdi N. Neuroprotective effects of carvacrol against Alzheimer's disease and other neurodegenerative diseases**:** A review. Avicenna J Phytomed. 2022 Jul-Aug.

- Enshaeieh M, Saadatnia G, Babaie J, Golkar M, ***Choopani S***, Sayyah M. Valproic Acid Inhibits Chronic Toxoplasma Infection and Associated Brain Inflammation in Mice. Antimicrob Agents Chemother. 2021 Sep.

- Heysieattalab S, Doostmohammadi J, Darvishmolla M, Saeedi N, Hosseinmardi N, Gholami M, Janahmadi M, ***Choopani S***. Non-selective COX inhibitors impair memory formation and short-term but not long-term synaptic plasticity. Naunyn Schmiedebergs Arch Pharmacol. 2021 Sep. Naunyn Schmiedebergs Arch Pharmacol. 2021 Sep.

- Afsharinasab A, Moayer F, Amini M, ***Choopani S***, Tahmasvand R, Dehghani S, Mousavi SZ, Salimi M. Two Novel Compounds with Tri-aryl Structures as Effective Anti-Breast Cancer Candidates In-vivo. Iran J Pharm Res. 2020 Spring.

- Pourbadie HG, Sayyah M, Khoshkholgh-Sima B, ***Choopani S***, Nategh M, Motamedi F, Shokrgozar MA. Early minor stimulation of microglial TLR2 and TLR4 receptors attenuates Alzheimer's disease-related cognitive deficit in rats: behavioral, molecular, and electrophysiological evidence.Neurobiol Aging. 2018 Oct.

- Babaie J, Sayyah M, ***Choopani S***, Asgari T, Golkar M, Gharagozli K. Toxoplasmosis accelerates acquisition of epilepsy in rats undergoing chemical kindling.Epilepsy Res. 2017 Sep.

- Goudarzvand M**,** ***Choopani S***, Shams A, Javan M, Khodaii Z, Ghamsari F, Naghdi N, Piryaei A, Haghparast A. Focal Injection of Ethidium Bromide as a Simple Model to Study Cognitive Deficit and Its Improvement.Basic Clin Neurosci. 2016 Jan.

- Dehghan-Shasaltaneh M, Naghdi N, ***Choopani S,*** Alizadeh L, Bolouri B, Masoudi-Nejad A, Riazi GH. Determination of the Best Concentration of Streptozotocin to Create a Diabetic Brain Using Histological Techniques.J Mol Neurosci. 2016 May.

- Eslami M, Ghanbari E, Sayyah M, Etemadi F, ***Choopani S***, Soleimani M, Amiri Z, Hadjighassem M. Traumatic brain injury accelerates kindling epileptogenesis in rats.Neurol Res. 2016 Mar.

- Soodi M, Naghdi N, Hajimehdipoor H, ***Choopani S***, Sahraei E. Memory-improving activity of Melissa officinalis extract in naïve and scopolamine-treated rats.Res Pharm Sci. 2014 Mar-Apr.

- Farahmandfar M, Kadivar M, Naghdi N, ***Choopani S***, Zarrindast MR. Influence of pre-exposure to morphine on cannabinoid-induced impairment of spatial memory in male rats.Behav Brain Res. 2013 Nov.

- Moradpour F, Naghdi N, Fathollahi Y, Javan M, ***Choopani S,*** Gharaylou Z. Pre-pubertal castration improves spatial learning during mid-adolescence in rats.Prog Neuropsychopharmacol Biol Psychiatry. 2013 Oct .

- Mehdizadeh M, Dabaghian F, Nejhadi A, Fallah-Huseini H, ***Choopani S,*** Shekarriz N, Molavi N, Basirat A, Mohammadzadeh Kazorgah F, Samzadeh-Kermani A, Soleimani Asl S. Zingiber Officinale Alters 3,4-methylenedioxymethamphetamine-Induced Neurotoxicity in Rat Brain.Cell J. 2012 Fall.

- Ahmadi A, Sayyah M, Khoshkholgh-Sima B, ***Choopani S***, Kazemi J, Sadegh M, Moradpour F, Nahrevanian H. Intra-hippocampal injection of lipopolysaccharide inhibits kindled seizures and retards kindling rate in adult rats.Exp Brain Res. 2013 Apr.

- Torkaman-Boutorabi A, Ali Shahidi G, ***Choopani S***, Reza Zarrindast M. Association of monoamine oxidase B and catechol-O-methyltransferase polymorphisms with sporadic Parkinson's disease in an Iranian population.Folia Neuropathol. 2012.

- Torkaman-Boutorabi A, Shahidi GA, ***Choopani S***, Rezvani M, Pourkosary K, Golkar M, Zarrindast MR. The catechol-O-methyltransferase and monoamine oxidase B polymorphisms and levodopa therapy in the Iranian patients with sporadic Parkinson's disease.Acta Neurobiol Exp (Wars). 2012.

- Abbasian M, Sayyah M, Babapour V, Mahdian R, ***Choopani S,*** Kaviani B. Upregulation of connexins 30 and 32 gap junctions in rat hippocampus at transcription level by chronic central injection of lipopolysaccharide.Iran Biomed J. 2012.

- Sayyah M, Kaviani B, Khoshkholgh-Sima B, Bagheri M, Olad M, *Choopani S,* Mahdian R. Effect of chronic intracerebroventricluar administration of lipopolysaccharide on connexin43 protein expression in rat hippocampus.Iran Biomed J. 2012.

- Majlessi N, ***Choopani S***, Kamalinejad M, Azizi Z. Amelioration of amyloid β-induced cognitive deficits by Zataria multiflora Boiss. essential oil in a rat model of Alzheimer's disease.CNS Neurosci Ther. 2012 Apr.

- Zarifkar A**, *Choopani s***, Ghasemi R, Naghdi N, Maghsoudi AH, Maghsoudi N, Rastgar K, Moosavi M. Agmatin prevents LPS-induced spatial memory impairment and hippocampal apoptosis.Eur j pharmacol,2010feb 23.

- Emamian S, Naghdi N, Sepehri H, Jahanshahi M, Sadeghi Y, ***Choopani S.*** Learning impairment caused by intra-CA1 microinjection testosterone increases the number of astrocytes. Behav Brain Res, 2010 mar .

- Nahid Majlessi, ***Samira Choopani***, Tahereh Bozorgmehr, Zahra Azizi, Involvement of hippocampal nitric oxide in spatial learning in the rat. Neurobiology of Learning and Memory, 2008.

- ***Choopani S***, Moosavi M, Naghdi N. Involvement of nitric oxide in insulin induced memory improvement. Peptides. 2008 Jan 18.

- Moosavi M, Naghdi N**, *Choopani S.*** Intra CA1 insulin microinjection improves memory consolidation and retrieval. Peptides. 2007 May; 28(5):1029-34.

Abstracts presented in Scientific Meetings:

- 5th International and 26th National Iranian Congress of Physiology and PharmacologyOctober 11-13, 2023Semnan, Iran, Title of poster presented: Investigating the effect of Toxoplasma gondii infection on spatial learning and memory in rats.

- 20th Congress on Physiology & Pharmacology, 2011, Hamedan, Iran. Title of poster presented: Agmatine prevent LPS-induced spatial memory impairment and hippocampal apoptosis.

- 19th Congress on Physiology & Pharmacology, 2009, Tehran, Iran, Title of poster presented: Involvement of nitric oxide in insulin induced memory improvement.

- 3rd International Congress on Brain and Behaviour, 28 November-2 December 2007, Thessaloniki, Greece. Title of poster presented: Effects of nitric oxide synthase inhibition in the CA1 region of rat hippocampus on spatial learning.

- 3rd International Congress on Brain and Behaviour, 28 November-2 December 2007, Thessaloniki, Greece. Title of poster presented: Post-training nitric oxide synthase inhibition in the CA1 region of rat hippocampus does not impair spatial memory consolidation.
- 3rd International Congress on Brain and Behaviour, 28 November-2 December 2007, Thessaloniki, Greece. Title of poster presented: Intra CA1 insulin microinjection improves memory consolidation.

- 18th Congress on Physiology & Pharmacology, 2007, Mashhad, Iran, Title of poster presented: Effect of nitric oxide synthase inhibition in the Ca1 region of rat hippocampus on spatial memory.

Research Projects:

- The effect of carvacrol on synaptic plasticity and cognitive deficits in Amyloid β induced Alzheimer's disease model in rats.

- Induced expression of C-terminal peptide of rabies glycoprotein in brain and evaluation of its role on synaptic function and behavioral performance in rats.

- Improving effect of monophosphoryl lipid A on memory deficit induced by traumatic brain injury in rats.

- Evaluation of synaptic function of cerebral neurons infected with rabies virus at different time points:An in-vivo study with rabies treatment approach.

- Induced expression of glycoprotein of rabies virus in neural cells and its protective role in a rat model of Alzheimer's disease.

- The study of changes in synaptic transmission in the rat hippocampus in male puberty

- The role of voltage gated potassium and NMDA channels in the pathogenesis of rabies G protein.

- The effect of exercise and insulin on stress-induced changes in learning.

- A study of association between cystain C and clusterin genes polymorphisms and late-onset Alzheimer's disease.
- A study on therapeutic effects of Cinnamomum zeylanicum extract on cognitive deficits in an animal model of Alzheimer's disease.

- Catechol-O-methyltransferase and monoamine oxidase susceptibility to sporadic Bgenes polymorphism and Parkinson disease in an Iranian population.
- The study on the protective effect of agmatin against LPS-induced spatial memory impairment.
- Catechol-O-methyltransferase polymorphism and response to levodopa treatment in the Iranian Parkinson's disease patients.
- The effect of zinc deficiency and zinc supplement diets the last week gestation and during lactation on learning, memory and motor function in rat's offspring.
- The study on the role of nitric oxide in insulin induced spatial learning memory improvement.
- Interaction of hippocampal nitric oxide (NO) and cholinergic system with testosterone as assessed spatial learning & memory in morris water maze.
- Effect of calcium blockers on spatial learning and memory in rats.
- Effects of nitric oxide synthase inhibition in the CA1 region of rat hippocampus on spatial learning in the Morris water maze.

Laboratory Skills:

- Sterotaxic surgery
- Animal behavioral studies, especially learning and memory by Morris Water Maze, passive avoidance learning by shuttle Box, Anxiety by Plus Maze
- Molecular biology techniques:
  -Protein extraction and Western blothing
  -DNA Extraction
  -Polymerase chain reaction (PCR)
  - Restriction fragment length polymorphism (RFLP)
  -Electrophoresis.
- Electrophysiology (field potential recording)

- Immunohistochemistry
- **The preparation of** tissue sections **and specific staining**