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Education:

-B.S. Biology: Tabriz University, Department of Biology, Tabriz, Iran



-M.Sc. Animal physiology: Kharazmi University (Tarbiat Moallem University Tehran) and

Urmia University, Department of Biology, Urmia, Iran



-Ph.D. Neuroscience: Tehran University of Medical Sciences, School of Advanced Medical



Technologies, Department of Neuroscience, Tehran, Iran

Tehran University of Medical Sciences

Current position:

Associate Professor of Neuroscience, Department of cognitive neuroscience (DCN), University of Tabriz.

Research interests:

Learning and memory; Modulation of synaptic plasticity; Closed-loop modulation; Social Neuroscience; Neurodegenerative disease

Research Support:

- National Elites Foundation grant for young assistant professors (Dr. Kazem Ashtiani Award, 2019)
- Iran National Science Foundation (INSF) GRANT for investigating the effect of astroglial connexin 43 inhibition on the morphine dependence and synaptic efficacy of the CA1 hippocampal neurons in rats' project. Role: Principal Investigator
- Iran National Science Foundation (INSF) GRANT for investigating the effect of social hierarchy formation on mPFC-vHPC circuit during performing spatial working memory cognitive task. Role: Principal Investigator
- Cognitive Science and Technologies Council (CSTC) GRANT for neural correlates of working memory, inhibitory control and moral decision making in different social hierarchies. Role: Principal Investigator
- Cognitive Science and Technologies Council (CSTC) GRANT for using machine learning to obtain the pattern of multivariate relationships between attention subscales and qEEG parameters. Role: Principal Investigator
- Cognitive Science and Technologies Council (CSTC) GRANT for behavioral and electrophysiological study of decision making under conditions of risk and ambiguity in choice and preference situations. Role: Principal Investigator
- Iran National Science Foundation (INSF) GRAN for the effect of social rank induction and reward structure on the lying rate of individuals with moral assumptions of honesty and dishonesty. Role: Principal Investigator

- Iran National Science Foundation (INSF) GRAN for Effect of Social Status Loss on Risk-based Decision-Making in Male Rats: Evaluating the Behavioral and Electrophysiological correlates in Pvl-Vta-NAc-BLA Circuits. Role: Principal Investigator

Master and Doctorate Thesis Supervision:

Title of thesis	Full Name of Student	Role
The Role of Partner Competence and Benevolence in the Formation and Updating of Interpersonal Trusting Behavior: A Behavioral Study Using a Modified Repeated Trust Game	Mohsen Ghorbani	Supervisor
Neural Mechanisms of Monitoring, Evaluation, and Anticipation During the Post-Response, Pre-Feedback Interval: The Role of Outcome Uncertainty Versus Temporal Uncertainty	Erfan Jami Moharari	Supervisor
Electrophysiological Differentiation of Five Substance- Use Disorders Based on Resting-State EEG Indexes and Machine Learning and Deep Learning Models	Masoud Hosseini	Supervisor
Computational Structure of Social Emotions: Behavioral & Electrophysiological Investigation of the Evolutionary Theory of Guilt and Shame	Hadi Mohamadpour	Supervisor
Combined Effects of rTMS and Cognitive Rehabilitation on Cognitive and Electrophysiological Markers in Patients with Left-Hemispheric Ischemic Stroke: A Randomized Pilot Trial	Fatemeh Azimi	Second Supervisor
Individual-level markers of overt vs covert semantic processing using ERP (N400): index construction, measurement reliability, and time-on-task effects in active and passive paradigms	Elahe Gholami	Supervisor
Discriminating Adult Offspring of Late-Onset Alzheimer's Patients from Controls Using Topological Features of EEG-Derived Quantile Graphs	Ali Zafarani	Supervisor
Evaluation of the Behavioral and Electrophysiological (QEEG/ERP) Effects of Repetitive Transcranial Magnetic Stimulation (rTMS) of the Dorsolateral Prefrontal Cortex (DLPFC) on Anger and Intolerance of Uncertainty in Patients with Post-Traumatic Stress Disorder (PTSD)	Parinaz Alizadeh	Supervisor
Evaluation of the Effectiveness of Repetitive Transcranial Magnetic Stimulation of the Cerebellar Crus II on Cognitive Functions and Electrophysiological Changes in Patients with Mild to Moderate Alzheimer's Disease	Fatemeh Shamsian	Supervisor
Investigating Resting-State EEG Patterns and Their Exploratory Predictive Potential for rTMS-Induced Improvement in Verbal Working Memory	Nafiseh Zarezadeh	Advisor

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Combined Effects of Repetitive Transcranial Magnetic Stimulation (rTMS) of the Cerebellum and the Dorsolateral Prefrontal Cortex (DLPFC) on Cognitive Functions in Older Adults with Mild Cognitive Impairment (MCI)	Masoud Gaffarvand	Supervisor
The Effect of Reward and Temporal Uncertainty on Learning from Non-Social Feedback in Individuals with Different Social Ranks	Hadis Hedari	Supervisor
Impact of Social Rank Loss on Impulsive Decision-Making in Wistar Rats: A Behavioral and Electrophysiological Study in the Infralimbic and Prelimbic Cortices, Ventral Tegmental Area, Nucleus Accumbens, and Basolateral Amygdala	Khaled Pirozmehr	Supervisor
Neural correlates of consumer purchasing decisions in individuals with different social hierarchies' induction	Hesameddin Yazdchi	Advisor
Investigating the Modulation of Prefrontal Cortex Activity on Risk-Taking Behavior in Schizophrenia Patients with Positive and Negative Symptoms: A Transcranial Direct Current Stimulation Study	Hanieh Rezaie	Second Supervisor
Comparison of feedback processing in the learning of individuals with different risk preferences	Mohadeseh Yari	Advisor
The effect of probiotics on cognitive performances, and quantitative electroencephalography in individuals with early-stage Alzheimer's disease	Hosien Mohamad Alizadeh Fard	Supervisor
The Effectiveness of a Creative Activity Intervention in Modifying Attentional Bias in Students with Mild to Moderate Subclinical Depression	Baran Babakan	Advisor
Effects of Media Cues on Inhibitory Control and Social Decision-Making Across Different Levels of Social Media Addiction	Parisa Ali Barkian	Second Supervisor
Investigating the effect of transcutaneous auricular vagus nerve stimulation (taVNS) on cognitive flexibility in a probabilistic reversal learning task in healthy adults	Mina Rezaie	Supervisor
Modulation of loss aversion with right parietal transcranial magnetic stimulation: Evidence from TMS-EEG	Fatemeh Asgharian asl	Supervisor
Investigating the relationship between classical and numerical mental rotation skills with mathematical performance and the mediating role of cognitive abilities in elementary school children	Amir Maleki	Supervisor
Evaluating the effects of rTMS on electrophysiological activity of the dorsolateral prefrontal cortex, emotion regulation, and depression severity in patients with treatment-resistant major depressive disorder: An qEEG-ERP based approach	Mohamad Mahmoudi	Second Supervisor
Implementation and evaluation of a direct non-invasive brain to brain interface for transferring steady state visual evoked	Hasan Ziraki	Supervisor

potential signals during an interactive question and answer task		
Neural correlates of reward prediction error under reward uncertainty and timing uncertainty in individuals with different social hierarchies	Farnaz Rahnama	Supervisor
Effect of social status loss on decision-making under risk in male rats: evaluating the behavioral and electrophysiological indexes in PrL-Vta-NAc-BLA Circuits	Sevda Nouri	Supervisor
The effectiveness of auditory binaural beats intervention on behavioral and electrophysiological parameters in patients with Autism spectrum disorders	Sedegeh Ganjee	Supervisor
Investigating the effects of repeated transcortical magnetic stimulation of the brain on response inhibition, cognitive flexibility and sustained attention of people with generalized anxiety	Mohsen Arshad	Second Supervisor
The effects of exposure to different social ranks on loss aversion	Hossein Nejati namini	Supervisor
The Impact of cerebellar tDCS on social decision-making during receiving unfair suggestions in ultimatum game	Parisa Zareiyyeh	Second Supervisor
The effect of different circadian preferences in risky decision making: An ERP study	Mahsima Hajiabou	Second Supervisor
Comparing the impact of tDCS over cognitive control and moral default regions on dishonesty	Mahna Fardnia	Second Supervisor
The effects of social hierarchy and rewards on lying behavior regarding people's differences in moral defaults	Hasti Eghbali	Supervisor
The effects of social status on effort-based decision-making in male rats: evaluating the behavioral and electrophysiological indexes in ACC -OFC- amygdala circuits	Ghazale Roshani	Supervisor
Effects of social status on value-based decision-making in male rats: A behavioral and electrophysiological study of the amygdala-orbitofrontal cortex and anterior cingulate cortex circuits	Azam Farani	Supervisor
Effect of social status loss on value-based decision-making in male rats: Evaluating the behavioral and electrophysiological indexes in Amygdala-OFC-ACC circuit	Sajed Farajiazar	Second Supervisor
The effect of social hierarchy on value-based decision-making in male rats: Evaluating the behavioral and electrophysiological indexes in LHB-ACC circuit	Zahra Mahmoudi Azari	Supervisor

Investigating the relationship between cognitive control and decision-making preferences in risky and ambiguous conditions	Shaghayegh Kamyabi	Second Supervisor
The difference of preferred and non-preferred conditions cognitive load in risky and ambiguous decisions: A behavioral and electrophysiological study	Hamid Basiryan	Supervisor
The role of induced synchrony on frontotemporal cortex in working memory task using transcranial alternating current stimulation (tACS)	Amirhossein Feizi	Supervisor
The effect of sensory-auditory stimulation under preferred music and binaural beats on behavioral and electrophysiological parameters of patients with disorders of consciousness	Hossein Heidari	Supervisor
Investigating the effectiveness of transcranial direct current stimulation (tDCS) on enhancing the attention network and its effect on improving saccadic eye movements in adults with amblyopia	Mohammad Maeiiat	Supervisor
Investigating the relationship between quantitative electroencephalogram indices in resting state and decision preferences in "ambiguous" and "risky" conditions.	Hadi Ahmadi	Supervisor
Investigating the coherence of different frequency bands with the indicators of the integrated visual and auditory test (IVA2)	Mahdieh Alizadeh	Supervisor
Comparison of children's eye-closed and eye-opened qEEG in predicting attention deficit and response control by using machine learning	Zohreh Asgharian	Supervisor
Behavioral and neural correlates of visual working memory in men and women with different sleep quality	Fatemeh Bakhtiari	Second Supervisor
Quantitative evaluation of the effect of aroma inhalation on mental flexibility in healthy individuals based on EEG signals	Reyhaneh Afghan	Second Supervisor
The effect of transcranial random noise stimulation (tRNS) of bilateral parietal cortex on math performance, executive function, and math anxiety in students with specific learning disorder with impairment in mathematics	Saeed Mohammadi	Advisor
Investigating the spatial-numerical association in adults with right-to-left reading and writing direction	Reyhane Havedanloo	Supervisor
The effect of transcranial direct stimulation on people's social decision-making after learning social hierarchy	Mahdieh Goudarzi	Supervisor
Investigation of the effectiveness of transcranial direct current stimulation (tDCS) and probiotic supplementation on risky decision-making, impulsive traits, self-control and food choice in excess weight adolescents	Sara Derafsheh	Supervisor
Recognition of common patterns between attention subscales and children's qEEG using machine learning	Sevda Abbasi	Supervisor
Learning-based non-contact method for detecting brain signals	Mohammad Alaei	Advisor

related to the frontal lobe from facial features		
Non-contact method for generating brainwaves of motor cortex with utilizing learning algorithm and facial features	Mohamad Saeed Nazari	Advisor
A new approach for analyzing functional neuroimaging data using a combination of CNN-RNN and occlusion sensitivity analysis to identify important brain regions in visual imagery ability	Alireza Shafaei Darestani	Advisor
Investigation of cognitive function of memory and quantitative electroencephalography of children of persons with Alzheimer disease	Sara Rabiee	Supervisor
The effect of social hierarchy on spatial working memory: evaluating the behavioral and electrophysiological indexes in olfactory bulb-ventral hippocampus-medial prefrontal cortex circuit	Elham Bakhshi	Supervisor
Investigating the effect of social hierarchy formation on the mPFC-vHPC circuit during performing spatial working memory task	Faezeh Zarfsaz	Supervisor
Feedback processing in different social hierarchies: An event-related potentials (ERPs) study	Maryam Mohamadikia	Supervisor
Neural correlates of decision-making under uncertainty in different social hierarchies	Saeedeh Khosravi	Supervisor
The effects of social hierarchy on inhibitory control: An ERP study	Sourosh Fazel	Supervisor
Neural correlates of verbal working memory in different social hierarchies	Hadi Mohamadpour	Supervisor
Neural correlates of moral decision-making in different social hierarchies	Negin Safarzadeh	Supervisor
The effects of social hierarchy on consumer purchase decisions	Parvaneh Nabineghad	Supervisor
Event-related potential (ERP) correlates of negative feedback processing in perfectionists	Leyla Karami	Advisor
ADHD subtypes discrimination through distortion in time reproduction task: an ERP study	Fahimeh Parsaie	Advisor
Causal relationship between theta oscillations and working memory through using closed-loop neurofeedback system	Farhad Farkhondeh Tale Navi	Advisor

International Journal Articles:

-M Ghorbani, NS Nobarian, **S Heysieattalab**, S Fazel, A Jahan. Social dominance and moral decision-making: An investigation of cognitive and emotional processing as indicated by contingent negative variation and late positive potential. *Acta Psychologica* 266, 106883

- S Khosravi, L Kogler, c, B Derntl, **S Heysieattalab** .The influence of endogenous and exogenous sex steroid hormones and social hierarchy on decision-making: A systematic review . Psychoneuroendocrinology.
- S Fazel, AH Vahabie, **S Heysieattalab**, FFT Navi. Neural and behavioral signatures of error monitoring are differentially modulated by social hierarchy and trial type. Scientific Reports
- Bakhshi Jifroudi E, **Heysieattalab S**, Farkhondeh Tale Navi F, Jaafari suha J, Zarfsaz F, Panahi Y. Olfactory Bulb Differently Synchronizes Ventral Hippocampus–Medial Prefrontal Cortex Circuit During Spatial Working Memory across Social Dominance Hierarchies. PLOS One 21 (2), e0341166
- M Maeiyat, **S Heysieattalab**, K Esmaeilpour. The impact of dorsolateral prefrontal cortex stimulation on attention networks and saccadic performance in adults with amblyopia. Vision Research 239, 108733.
- JM Smith, H Mohamadpour, J Engelmann, HE Davis, J Krieger, **S Heysieattalab**, D Amir. No Developmental Differences in Preferences for Epistemic Versus Physical Uncertainty Across Three Diverse Cultures. Developmental Science 28 (6), e70078
- S Khosravi, L Kogler, R Khosrowabadi, T Hashemi, B Derntl, **S Heysieattalab**. The interplay between social dominance and decision-making under expected and unexpected uncertainty: Evidence from event-related potentials. PLoS One 20 (10), e0334065.
- M Hajiaboo, M Zarean, **S Heysieattalab**. The effect of chronotype in risky decision making: An ERP study. International Journal of Psychophysiology, 113258
- F Zarfsaz, **S Heysieattalab**, A Jaafari suha, FFT Navi, H Basiryan. Social subordination is associated with better cognitive performance and higher theta coherence of the mPFC-vHPC circuit in male rats. PLOS One 20 (4), e0320952
- H Mohamadpour, M Goudarzi, AH Vahabie, **S Heysieattalab**. The role of the medial prefrontal cortex (mPFC) in social decision-making against high-and low-rank opponents: a transcranial direct current stimulation (tDCS) study. Social Neuroscience, 20 (1), 37-52
- MA Nazari, S Abbasi, M Rezaeian, **S Heysieattalab**, H Safakheil, ... Iranian 6-11 years age population-based EEG, ERP, and cognition dataset. Scientific Data 12 (1), 319
- S Hochman, R Havedanloo, **S Heysieattalab**, M Soltanlou. How does language modulate the association between number and space? A registered report of a cross-cultural study of the

spatial–numerical association of response codes effect. *Journal of Experimental Psychology: General*

- F Parsaei, **S Heysieattalab**, AM Nasrabadi, MA Nazari. Behavioral and Electrophysiological Evidence of Time Dilation Induced by Click Train in a Temporal Reproduction Task. *Iranian Journal of Psychiatry and Behavioral Sciences* 18 (4).

-S Rabiee, **S Heysieattalab**, Z Vahabi, S Sabaghypour. A Comparative Study on the Working Memory of the Children of Parents with and Without Alzheimer's Disease. *Iranian Journal of Psychiatry and Clinical Psychology* 30 (1).

-H Mohamadpour, FFT Navi, **S Heysieattalab**, M Irak, AH Vahabie, ... How is social dominance related to our short-term memory? An EEG/ERP investigation of encoding and retrieval during a working memory task. *Heliyon* 10 (17)

- FFT Navi, **S Heysieattalab**, MR Raoufy, S Sabaghypour, M Nazari, ... Adaptive closed-loop modulation of cortical theta oscillations: Insights into the neural dynamics of navigational decision-making. *Brain Stimulation* 17 (5), 1101-1118

- Mohamadpour H, Farkhondeh Tale Navi F, Asgharian Asl F, **Heysieattalab S**, Shakeri E, Karami Isheqlou L. Exploring neural correlates of social dominance: Insights from behavioral, resting-state EEG, and ERP indices. *Brain and Cognition*. 178, 106177

- Afghan R, **Heysieattalab S**, Soltani Zangbar H, Samadzadehaghdam N, Lavender Essential Oil Inhalation Improves Attentional Shifting and Accuracy: Evidence from Dynamic Changes of Cognitive Flexibility and Power Spectral Density of Electroencephalogram Signals. *Journal of Medical Signals & Sensors*14(4),12

- Fazel S, Vahabie AH, Farkhondeh Tale Navi F, **Heysieattalab S**. Unraveling the Social Hierarchy: Exploring Behavioral and Neural Dynamics in Shaping Inhibitory Control. *Behavioural Brain Research* 456, 114686.

- Darvishmolla M, Saeedi N, Tavassoli T, **Heysieattalab S**, Janahmadi M, Hosseinmardi N. Maladaptive plasticity induced by morphine is mediated by hippocampal astrocytic Connexin-43. *Life Sciences*, 121969.

- Eyvazpour R, Farkhondeh Tale Navi F, Shakeri E, Nikzad B, **Heysieattalab S**. Machine learning-based classifying of risk-takers and risk-averse individuals using resting-state EEG data: A pilot feasibility study. *Brain and Behavior* 2023.

- Heydarpour S, Mehdizadeh Fanid L, Mirza Asgari Z, **Heysieattalab S**. Effects of Repeated Trans Cranial Magnetic Stimulation on Cognitive Functions of Policemen with Post-traumatic stress disorder. *Iranian Journal of Psychiatry and Clinical Psychology* 29(1):32-47.
- L Karami Isheqlou, M Soltanlou, M Zarean, MT Saeedi, **S Heysieattalab**. Feedback-related negativity in perfectionists: An index of performance outcome evaluation. *Behavioral Brain Research*, 2023. 444, 114358
- N Saeedi, **S Heysieattalab**, M Janahmadi, N Hosseinmardi. The role of glial glutamate transporter in the baseline synaptic response and short-term synaptic plasticity of CA1 area of the hippocampus in male Wistar rat. *Medical Journal of Tabriz University of Medical Sciences* 2022. 44 (5), 380-389
- L Karami Isheqlou, M Zarean, MT Saeedi, M Soltanlou, **S Heysieattalab**. Maladaptive perfectionists are more impulsive than adaptive perfectionists in a monetary gambling task. *Journal of Experimental Psychopathology* 2022.13 (2), 20438087221106925.
- Heysieattalab S**, Khakpay R, Fadaei M, Abourehani Mohammadi M, Bagheri F , Hashemi S, Effects of social hierarchy on innate fear-induced panic responses. *Acta Neurobiologiae Experimentalis* 2022. 82 (2), 133-146.
- Darvishmolla M, **Heysieattalab S***, Saeedi N, Hosseinmardi N*, Jan Ahmadi M, Involvement of Hippocampal Astrocytic Connexin-43 in Morphine dependence. *Physiology & Behavior* 2022. 247, 113710.
- Farkhondeh Tale Navi F, **Heysieattalab S**, Ramanathan DS, Raoufy MR, Nazari MA. Closed-loop Modulation of the Self-Regulating Brain: A review on approaches, emerging paradigms, and experimental designs. *Neuroscience* 2022. 483, 104-126
- **Heysieattalab S**, Sadeghi L. Ecballium elaterium attenuates neuroinflammation in animal model of Alzheimer Disease through nuclear factor κ B pathway. *Avicenna Journal of Phytomedicine* 2022. 12 (1), 89.
- Farhoumandi N, Mollaey S, **Heysieattalab S***, Zarean M*. Facial emotional recognition predicts alexithymia using machine learning. *Computational Intelligence and Neuroscience* 2021; 10
- Saeedi N, Darvishmolla M, Tavassoli Z, Davoudi SH, **Heysieattalab S**, Hosseinmardi N, Janahmadi M, Behzadi G. The role of hippocampal glial glutamate transporter (GLT-1) in morphine-induced behavioral responses. *Brain and Behavior* 2021; 11(9); e2323.

- Heysieattalab S**, Sadeghi L. Dynamic structural neuroplasticity during and after epileptogenesis in a pilocarpine rat model of epilepsy. *Acta Epileptologica* 2021; 3 (1): 1-9.
- **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-Schmiedeberg's Archives of Pharmacology* 2021; 1-13.
- Abizadeh M, **Heysieattalab S**, Hosseinmardi N, Janahmadi M, Saeedi N, Salari F, Golpayegani SM, Shojaii A. Ameliorating Effects of Dorema Ammoniacum on PTZ-induced Seizures and Epileptiform Brain Activity in Rats. *Planta Medica* 2020; 86 (18): 1353-1362.
- **Heysieattalab S**, Sadeghi L. Effects of Delphinidin on pathophysiological signs of nucleus basalis of Meynert lesioned rats as animal model of Alzheimer disease. *Neurochemical research* 2020; 45(7):1636-1646.
- Sepehr A, Motaghinejad M, **Heysieattalab S**, Safari S. Minocycline Maybe Useful to Prevent or Treat Methamphetamine-Induced Neural Cell Death: Hypothetic Role of Autophagia and Apoptosis Signaling Pathway. *Advanced Biomedical Research* 2020; 9:7.
- **Heysieattalab S**, Ka-Hung Lee, Liu Y, Foy MR, Bi X and Baudry M. Impaired cerebellar plasticity and eye-blink conditioning in calpain-1 knock-out mice. *Neurobiology of learning and memory* 2020; 170:106995.
- Ghotbeddin Z, **Heysieattalab S**, Borjkhani M , Mirnajafi-Zadeh J, Semnani S, Hosseinmardi N, Janahmadi M. Ca^{2+} channels involvement in low-frequency stimulation-mediated suppression of intrinsic excitability of hippocampal CA1 pyramidal cells in a rat amygdala kindling model. *Neuroscience* 2019; 406:234-248.
- Modaberi S, **Heysieattalab S**, Shahbazi M, Naghdi N. Combination Effects of Forced Mild Exercise and Effective GABA B Receptor Agonist on Spatial Learning and Memory, and Motor Activity in Striatum Lesion Rats. *Motor behavior journal* 2019; 51(4):438-450.
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- Elahi Mahani A*, **Heysieattalab S***, Hosseinmardi N, Janahmadi M, Sadat Seyedaghamiri F, Khoshbouei H. Glial Cells Modulate Hippocampal Synaptic Plasticity in Morphine-Treated Rats. Brain Research Bulletin 2018; 140:97–106 (*equal co-first author).

-Sadat Seyedaghamiri F*, **Heysieattalab S***, Hosseinmardi N, Janahmadi M, Elahi-Mahani A, Salari F, Golpayegani M, Khoshbouei H. Involvement of hippocampal glial cells in morphine addiction-related behaviors. Physiology & Behavior 2018; 191: 37–46 (*equal co-first author).

-Khodadadi D, Gharakhanlou R, Naghdi N, Salimi M, Azimi M, Shahed A, **Heysieattalab S**. Treadmill exercise improves spatial cognition through increased A β clearance in the hippocampus of a rat model of Alzheimer's disease. Neurochemical research 2018; 43(8):1561-1574.

-Roohi-Azizi M, Azimi L, **Heysieattalab S**, Aamidfar M, Changes of the Brain's Bioelectrical Activity in Cognition, Consciousness, and Some Mental Disorders. Medical Journal of the Islamic Republic of Iran 2017; 31 (1):307-312.

- **Heysieattalab S**, Naghdi N, Zarrindast MR, Haghparast A, Ejtemaei Mehr S, Khoshbouei H. The role of GABA_A and NMDA receptors in the shell–accumbens in the spatial memory of Methamphetamine-treated Rats. Pharmacology Biochemistry and Behavior 2016; 142: 23-25.

- **Heysieattalab S**, Naghdi N, Hosseinmardi N, Zarrindast MR, Haghparast A, Khoshbouei H. Methamphetamine-Induced Enhancement of Hippocampal LTP Is Modulated by NMDA and GABA Receptors in the Shell–Accumbens. Synapse 2016; 70: 325-335.

- Azimi L, Kachooeian M, Khodaghali F, Yans A, **Heysieattalab S**, Asadi F, Vakiladeh G, Mottaghi-Dastjerdi N, Vouseoghi N, Sharifzadeh M. Attenuation of autophagy and apoptosis marker expression mediated protective effects of salicylate on H-89 induced memory deficit in rats. Pharmacology, Biochemistry and Behavior 2016; 150–151: 158-169.

- **Heysieat-talab S**, Zare S, Ghaderi Pakdel F, Mokhtari hashtjin M. Effects of Administration of Perinatal Bupropion on the Population Spike Amplitude in Neonatal Rat Hippocampal Slices. Iranian Journal of Basic Medical Sciences 2010; 13: 200-206.

National Journal Articles (in Persian)

- H Eghbali, **S Heysieattalab**, A Vahhabi. The Effects of Different Reward Structures and Gender on the Dishonesty Magnitude. Social Psychology Research 15 (59), 129-142

- S Abbasi, **S Heysieattalab**, Z Barzegar, H Ghimatgar, MA Nazari. Relationship of alpha peak frequency of different brain regions with attention and inhibition of auditory and visual responses. *Med J Tabriz Uni Med Sciences*. 2025;47(3) 47 (3)

- S Khosravi, **S Heysieattalab**, B Derntl, R Khosrowabadi, T Hashemi. Exploring the Impact of Social Dominance Orientation on Decision-Making Under Uncertain Conditions: An ERP Study. *Social Cognition* 13 (25), 83-99

- Mohammad Maeiyat M, **S Heysieattalab**, Esmaeilpour KH. Investigating the effectiveness of transcranial direct current stimulation (tDCS) on enhancing the attention network in adults with amblyopia. *The Neuroscience Journal of Shefa* 13 (1), 16-26.

- M Mohammadi Kia, **S Heysieattalab**, A Vahabie, A Bakhshipour. Comparison of the Behavioral Performance of Individuals with Social Dominance (High and Low) Under Conditions of Learning from Positive and Negative Feedback. *Appl. Psychol* 18 (4), 81-104

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- Aboureihani Mohammadi M, Fadaei Moghadam Heydarabadi M, Zardary S, **Heysieattalab S**. Identification Psychological Disorders Based on Data in Virtual Environments Using Machine Learning. *Psychological research* 2020; 7(4): 7-27.

- **Heysieattalab S**, Samad Z, Ghaderi Pakdel F. Effects of long-term perinatal administration of Bupropion on population spike amplitude in neonatal rat hippocampal slices. *Koomesh* 2010 11(4): 287-293.

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- Ghaderi Pakdel F, Zare S, **Heysieattalab S**, Saboori E. The effect of Bupropion on evoked population spikes of rat hippocampal slices. *Urmia of medical journal* 2009: 20 (3); 192-200.

International Conference Presentations or Posters

- Ghaderi Pakdel F, Zare S, **Hesiattalab S**. Bupropion can decrease LTP parameters in rat hippocampal slices. 3rd FAONS symposium, December 4-6, 2008 Bangkok, Thailand (poster)
- **Heysieat-talab S**, Zare S, Ghaderi Pakdel F, Saboori E. Effects of Long-term Perinatal Administration of Bupropion on Amplitude of Population Spike of Neonatal Rat Hippocampal Slices. 19th Iranian Congress of Physiology and Pharmacology, Tehran. 3-6 Nov 2009 (poster)
- Heysieattalab S**, Naghdi N, Zarrindast MR, Haghparast A, Ejtemaei Mehr S, Khoshbouei H. The role of GABA_A receptor in the shell–accumbens in the spatial memory of methamphetamine-treated Rats. 4th Iranian Congress of basic and clinical neuroscience, Tehran
- Saeedi N, Seyedaghamiri F, Hosseinmardi N, Janahmadi M, **Heysieattalab S**. Inhibition of Hippocampal Glial Cells Reduces the Naloxone-Induced Withdrawal Signs in Morphine Dependent Rats. 2nd international & 23rd Iranian congress of physiology and pharmacology. Chabahar 15-18 Feb 2018 (poster)
- **Heysieattalab S**, Naghdi N, Zarrindast MR, Haghparast A, Hosseinmardi N, Khoshbouei H Examination of Behavioral and Electrophysiological Role of NMDA and GABA Receptors in the shell of the Nucleus Accumbens on Learning in Methamphetamine-treated rats. 2nd international & 23rd Iranian congress of physiology and pharmacology. Chabahar 15-18 Feb 2018 (poster)
- Foy M, **Heysieattalab S**, Lee KH, Liu Y, Bi X and Baudry M. Impaired cerebellar plasticity and eye-blink conditioning in calpain-1 knock-out mice. SfN 11-15 November Washington, DC 2017 (poster)
- Heysiattalab S**, Ghotbedin Z, Mirnajafi-Zadeh SJ, Semnanian S, Mahyar Janahmadi M. Modulation of intrinsic neuronal properties in hippocampal CA1 pyramidal cells by alterations in the functional properties of intrinsic Ca²⁺- ion channels. 6th Iranian Congress of basic and clinical neuroscience, Tehran (poster)
- Haghravan F, Saebnia S, Khalilzadeh E, Sadeghi L, Dolatyari M, Nazari MA, **Heysieattalab S**. The Effect of Social dominance on oral morphine self-administration in Male Rats. 7th Iranian Congress of basic and clinical neuroscience, Tehran (poster)
- Bagheri F, Hassanzadeh P, Khalilzadeh E, Sadeghi L, Dolatyari M, Nazari MA, **Heysieattalab S**. Effects of Dominant/Subordinate Social Status on Thermal-induced Nociception and Correlation with Concentrations of Glutamate in Prefrontal Cortex and Hippocampus. 7th Iranian Congress of basic and clinical neuroscience, Tehran (poster)

-Heysiattalab S, Cross-frequency coupling and synaptic efficiency. 7th Iranian Congress of basic and clinical neuroscience, Tehran (Oral)

-Heysiattalab S, neuroplasticity and cellular level interactions in neurofeedback learning. 7th Iranian Congress of basic and clinical neuroscience, Tehran (Oral)

- Parsaei F, MA Nazari MA, **Heysiattalab S**. Decreased delta activity and Cross-Frequency interaction of resting-state electroencephalographic oscillations in transcranial light emitting diode (LED) IBRO Reports 6, S78.

Heysiattalab S, Bagheri F, Khalilzadeh E, Dolatyari M. Effects of dominant/subordinate social status on acute pain perception IBRO Reports 6, S187.

Computing experience:

I have several years' experience using windows-compatible PCs and am familiar with the following graphical, statistical and analysis packages: Axograph, pClamp, Origin, mini-Analysis, Graphpad (InStat & Prism), SPSS.

Technical Experience:

- Hippocampal and cerebellar slices preparation
- Measuring electrical activity using extracellular and intracellular recording
 - *in vitro* Patch clamp recording technique
 - *In vivo and in vitro* Field Potential
- Cell culture
- Stereotaxic Surgery & Microinjection Techniques
- Behavioral Tests: Memory Tests (Morris Water Maze, Shuttle Box), Conditioned Place Preference (CPP), Open field.
- EEG/ERP
- LFP

Education grants received:

-Ahvazi Award in 6th Iranian Congress of basic and clinical neuroscience, Tehran

-Visiting scholar in Western University of Health Sciences, 2016 USA, CA, Pomona

- 1st IBRO-APRC Associate School of Neuroscience, May 22-28, 2013, Tehran, Iran
- IUPS Travel Award to attend the IUPS Congress 2017
- IBRO-APRC AIIMS Delhi 2018 21st October to 4th November 2018
- IBRO Travel Award to attend the neuro 2019 congress 25-28 July, Japan
- ERASMUS mobility program in Cumhuriyet University, Turkey
- IBRO International Travel Grants award to attend FENS Forum 2020, Glasgow, UK
- Tehran IBRO School of Neuroscience; 26 October-6 November, 2015, Tehran, Iran (As a Teaching Assistant in patch clamp lab)

Reviewer of Journals:

Basic and Clinical Neuroscience Journal,
 Frontiers in Psychiatry
 Frontiers in Neuroscience
 Frontiers in Pharmacology
 Frontiers in Neurology