Anna Meyfour

- Assistant Professor, Research Institute for Gastroenterology and Liver Diseases, Shahid Beheshti University of Medical Sciences 19839-63113, Tehran, Iran

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a.meyfour@gmail.com

PERSONAL DETAILS

Birthdate: 23th of August 1982
Birthplace: Ahvaz, Iran
Marital status: Married

EDUCATION

2012-2017 Ph.D. in Applied Proteomics, SBMU, Tehran, Iran
Thesis: Proteome study of the human Y chromosome during embryonic stem cell differentiation to cardiomyocyte
Total GPA: 19.6/20

RESEARCH INETRESTS

Gastrointestinal diseases, stem cells and their application in regenerative medicine and drug discovery, organoids, biomarker discovery, omics and systems biology

AWARDS

2015-2017 Member of National Elites Foundation, Iran.

2014-2017 Member of brilliant talent office, Shahid Beheshti University of medical sciences.

2017 Finalist for PhD Competition at Human Proteome Organization, Dublin, Ireland.

2015 Best student researcher in 15nd Aboureyhan research festival from Shahid Beheshti University of Medical Sciences.

2016 Top student in “Doctor Motahari” educational festival from Shahid Beheshti University of Medical Sciences.

2015 Top student in “Doctor Motahari” educational festival from Shahid Beheshti University of Medical Sciences.

PUBLICATIONS

Sefatjoo, Z., Mohebbi, SR., Hosseini, SM., Shoraka, S., Niasar, MS., Baghaei, K., **Meyfour, A**., Asadzadeh Aghdaei, H., Zali, M.R., Evaluation of long non-coding RNAs EGOT, NRAV, NRIR and mRNAs ISG15 and IFITM3 expressions in COVID-19 patients. 2024. https://doi.org/10.1016/j.cyto.2023.156495

Nazari, M.H.D., Shahrokh, S., Ghanbari-Maman, L., Maleknia, S., Ghorbaninejad, M., **Meyfour*, A**., Prediction of anti-TNF therapy failure in ulcerative colitis patients by ensemble machine learning: A prospective study. 2023. https://doi.org/10.1016/j.heliyon.2023.e21154

Heydari, R., Fayazzadeh, S., Shahrokh, S., Shekari, F., Farsad, F., **Meyfour*, A**., Plasma extracellular vesicle LncRNA H19 as a potential diagnostic biomarker for inflammatory bowel diseases. 2023. https://doi.org/10.1093/ibd/izad219

Tavassolifar, M.J., Asadzadeh Aghdaei, H., Sadatpour, O., Maleknia, S., Fayazzadeh, S., Mohebbi, R., **Meyfour, A***. New insights into extracellular and intracellular redox status in COVID-19 patients. Redox biology. 2023. https://doi.org/10.1016/j.redox.2022.102563

Ghorbaninejad, M., Asadzadeh Aghdaei, H., Baharvand, H., **Meyfour, A***. Intestinal organoids: A versatile platform for modeling gastrointestinal diseases and monitoring epigenetic alterations. Life Sciences. 2023. https://doi.org/10.1016/j.lfs.2023.121506

Ghorbaninejad, M., Abdollahpour-Alitappeh, M., Shahrokh, S., Fayazzadeh, S., Asadzadeh Aghdaei, H., **Meyfour, A***. TGF-β receptor I inhibitor may restrict the induction of EMT in inflamed intestinal epithelial cells. Experimental Biology and Medicine. 2023. https://doi.org/10.1177/15353702231151959

Shekari, F., Abyadeh, M., **Meyfour, A.,** Mirzaei, M., Chitranshi, N., Gupta, V., Graham, S., Hosseini Salekdeh, G. Extracellular Vesicles as reconfigurable therapeutics for eye diseases: Promises and hurdles. Progress in Neurobiology. 2023. https://doi.org/10.1016/j.pneurobio.2023.102437

Najminejad, Z., Dehghani, F., Mirzaei, Y.,…, **Meyfour, A.,** Abdollahpour, -Alitappeh M. Clinical Perspective: Antibody-Drug Conjugates (ADCs) for the Treatment of HER2-Positive Breast Cancer. Molecular Therapy. 2023. https://doi.org/10.1016/j.ymthe.2023.03.019

Alavifard, H., Mazhari, S., **Meyfour, A.,** Tokhanbigli, S., Ghavami, S., Zali, M.R., Asadzadeh Aghdaei, H., Hatami, B., Baghaei, K. Imatinib suppresses activation of hepatic stellate cells by targeting STAT3/IL-6 pathway through miR-124. Cell Biology International. 2023. https://doi.org/10.1002/cbin.11992

Nemati, S., Rahimi, H., **Meyfour, A.,** Pazoki, H., Asadzadeh Aghdaei, H., Shahrokh, S., Mirjalali, H. Evaluation of the mTORC activity in the presence of Toxoplasma

gondii and azathioprine in human monocyte cell line. BMC Microbiology. 2023. DOI: 10.1186/s12866-023-02819-8

Ghorbaninejad, M., Khademi-Shirvan, M., Hosseini, S., **Meyfour, A.,** Shahhoseini, M., Baghaban Eslaminejad, M. Effective role of Curcumin on expression regulation of EZH2 histone methyltransferase as a dynamic epigenetic factor in osteogenic differentiation of human mesenchymal stem cells. Biochimica et Biophysica Acta (BBA)-Gene Regulatory Mechanisms. 2023. https://doi.org/10.1016/j.bbagrm.2022.194903

Ghorbaninejad, M., **Meyfour, A*.,** Maleknia, S., Shahrokh, S., Asadzadeh-Aghdaei, H. Inhibition of epithelial SHH signaling exerts a dual protective effect against inflammation and epithelial–mesenchymal transition in inflammatory bowel disease. Toxicology in Vitro. 2022. https://doi.org/10.1016/j.tiv.2022.105382

Heydari, R., Jangravi, Z., Maleknia, S., Bahari, Z., Seresht-Ahmadi, M, Zahra Bahari, Salekdeh, G, H., **Meyfour, A*.** Y chromosome is moving out of sex determination shadow. Cell & Bioscience. 2022. https://doi.org/10.1186/s13578-021-00741-y

Maleknia, S., Tavassolifar, M, J., Mottaghitalab, F., Zali, M, R., **Meyfour, A***. Identifying novel host-based diagnostic biomarker panels for COVID-19: a whole-blood/ nasopharyngeal transcriptome meta-analysis. Molecular Medicine. 2022. https://doi.org/10.1186/s10020-022-00513-5

Heydari, R., Abdollahpour-Alitappeh, M., Shekari, F., **Meyfour, A*.** Emerging Role of Extracellular Vesicles in Biomarking the Gastrointestinal Diseases. Expert review of molecular diagnostics. 2021. https://doi.org/10.1080/14737159.2021.1954909

Abyadeh, M., Gupta, V., Chitranshi, N., Wu, Y., Amirkhani, A., **Meyfour, M.**, Salekdeh, G. H., Mirzae, M. Comparative analysis of Aducanumab, Zagotenemab and Pioglitazone as targeted treatment strategies for Alzheimer's disease. Aging and Disease. 2021. doi: 10.14336/AD.2021.0719

Zandi, F., khalaj, V., Goshadrou, F., **Meyfour, A.**, Enayati, S., Rahmati, S., Mehranfar, M., Kheyri, E., Gholamipour, B., Vaziri, B. Rabies Virus Matrix Protein Targets Host Cytoskeletal and Metabolic Proteins: A Protein-Protein Interaction Analysis. Pathogenes and disease. 2021. https://doi.org/10.1093/femspd/ftaa075

Ahmadvand, S., Osia, A., **Meyfour, A.**, Pahlavan, S. Gender-specific characteristics of hypertrophic response in cardiomyocytes derived from human embryonic stem cells. J Cardiovasc Thorac Res. 2021. **DOI:**10.34172/jcvtr.2021.32

Zandi, F., khalaj, V., Goshadrou, F., Meyfour, A., Vaziri, B. Rabies Infection: An Overview of Lyssavirus-Host Protein Interactions. Iranian Biomedical Journal. 2021. DOI: 10.52547/ibj.25.4.226

Pooyan, P., Karamzadeh, R., Mirzaei, M., **Meyfour, A.**, Amirkhan, A., Wu, Y., Gupta, V., Baharvand, H., Javan, M., Salekdeh, G. H., The Dynamic Proteome of Oligodendrocyte Lineage Differentiation Features Planar Cell Polarity and

Macroautophagy Pathways. Gigascience. 2020. https://doi.org/10.1093/gigascience/giaa116

Abyadeh, M., **Meyfour, A*.**, Salekdeh, G. H., Mirzaei*, M. Advances of Functional Proteomics in Gastrointestinal Cancers- a Path Towards the Identification of Candidate Diagnostic, Prognostic, and Therapeutic Molecular Biomarkers. International Journal of Molecular Sciences. 2020. https://doi.org/10.3390/ijms21228532

Meyfour, A., Pahlavan, S., Mirzaei, M., Krijsveld, J., Baharvand, H., Salekdeh, G. H. The Quest of Cell Surface Markers for Stem Cell Therapy. Molecular & Cellular Life Sciences. 2020. https://doi.org/10.1007/s00018-020-03602-y

Hosseini, M., Ayyari, M., **Meyfour, A.**, Piacente, S., Cerulli, A., Pahlavan, S. Cardenolide-rich Fraction of Pergularia tomentosa as a Novel Antiangiogenic Agent Mainly Targeting Endothelial Cell Migration. DARU Journal of Pharmaceutical Sciences. 2020. https://doi.org/10.1007/s40199-020-00356-7

Sobhanian, H., Pahlavan, S., **Meyfour, A*.** How does proteomics target plant environmental stresses in a semi-arid area? Molecular Biology Reports. 2020. https://doi.org/10.1007/s11033-020-05406-6

Meyfour, A., Pahlavan, S., Ansari, H., Baharvand, H., Salekdeh, G. H. Down-regulation of a male-specific H3K4 demethylase, KDM5D, impairs cardiomyocyte differentiation. *Journal of Proteome Research.* 2019. https://doi.org/10.1021/acs.jproteome.9b00395

Meyfour, A., Hosseini, M., Sobhanian, H., Pahlavan, S. Iran's Contribution to Human Proteomic Research. Cell Journal. 2019. https://doi.org/10.22074/cellj.2019.6303

Gorbaninejad, M., Heydari, R., Mohammadi, M., Shahrokh, Sh., **Meyfour, A*.** Contribution of NOTCH signaling pathway along with TNF-α in the intestinal inflammation of ulcerative colitis. Gastroenterol Hepatol Bed Bench. 2019. PMID: 32099606

Meyfour, A., Rezaei-Tavirani, M. The Role of Omics in Clinical and Pharmaceutical Research. J Mazandaran Univ Med Sci. 2018. http://jmums.mazums.ac.ir/article-1-10440-en.html

Meyfour, A., Pahlavan, S., Sobhani, H., Salekdeh, G. H. 17th Chromosome-Centric Human Proteome Project Symposium in Tehran. Proteomics. 2018. https://doi.org/10.1002/pmic.201800012

Meyfour, A., Ansari, H., Pahlavan, S., Mirshahvaladi, S., Rezaei-Tavirani, M., Gourabi, H, Baharvand, H., Salekdeh, G. H. Y Chromosome Missing Protein, TBL1Y, May Play an Important Role in Cardiac Differentiation. Journal of Proteome Research. 2017. https://doi.org/10.1021/acs.jproteome.7b00391

Meyfour, A., Pooyan, P., Pahlavan, S., Rezaei-Tavirani, M., Gourabi, H., Baharvand, H., Salekdeh,G. H. Chromosome-Centric Human Proteome Project Allies with Developmental Biology: a Case Study of the Role of Y chromosome Genes in Organ

Development. Journal of Proteome Research. 2017. https://doi.org/10.1021/acs.jproteome.7b00446

Meyfour, A., Rezaie-Tavirani, M., Comparison of Three Staining Methods, Coomassie Blue R250, Colloidal Coomassie Blue and Blue Silver, for Detecting Mouse Brain Proteins Separated by Two-Dimensional Electrophoresis. *Journal of Ilam University of Medical Sciences*. 2014, 22, (3), 46-51.

Meyfour, A., Rezaie-Tavirani, M., Sadeghi, M.R., Basati, G.h., Amraei, M., Total Protein Extraction with High Concentration from the Sperm Cells of Fertile and Infertile Men. *Journal of Ilam University of Medical Sciences*. 2013, 20, (4), 144-151.

Meyfour, A., Ahmadi, N., Maleki, F., Isoelectric Focusing Optimization of Female Mouse Brain Protein Extract. *Journal of Ilam University of Medical Sciences*. 2013, 20, (4), 176-181.

Meyfour, A., Rezaei-Tavirani, M., Sadeghi, M. R. Common Proteomic Technologies, Applications, and their Limitations. Archives of Advances in Biosciences. 2013, winter, (4), 115-25. https://doi.org/10.22037/jps.v4i0.4014

Ardekani, A. M., Maghsudi, N., **Meyfour, A.**, Ghasemi, R., Lakpour, N., Nooshinfar, E., Ghaempanah, Z. Stress-Induced Proteomic Changes in the Hippocampus of Pregnant Wistar Rats. *Avicenna J Med Biotechnol*. 2011, 3, (4), 157-66. PMID: 23407342

*Corresponding author

RESEARCH EXPERIENCE

2018-Now Research Institute for Gastroenterology and Liver Diseases, Shahid Beheshti University of Medical Sciences, Tehran, Iran, Projects:

- Setting up a Cell Culture Laboratory
- Setting up a Proteomics Laboratory
- Exosomal Serum Proteome Analysis of Patients with Inflammatory Bowel Disease to Identify Non-Invasive Diagnostic Biomarkers
- Generation of human gastric organoids and evaluation of the potential of opium treatment in development of gastric cancer
- In vitro and in vivo modeling of inflammatory bowel disease
- Systems biology in COVID-19
- Investigating the effect of MTOR complex suppression on gastric cancer cells *in vitro*

2014-2019 Proteomics Lab, Stem Cell Differentiation Lab, Department of Stem Cells and Developmental Biology, Cell Science Research Center, Royan Institute for Stem Cell Biology and Technology, Projects:

- Human Y Chromosome Proteome Project
- Proteome Study of the Human Y Chromosome During Embryonic Stem Cell Differentiation to Cardiomyocyte
- Comparative Proteome Analysis of Human Embryonic Stem Cell During Cardiac Differentiation
- Identification of oligodendrocyte specific biomarkers by in-depth quantitative proteomic profiling of embryonic stem cells during differentiation into neural lineages

2010-2013 Proteomics Lab, Biotechnology Research Center, Avicenna Research Institute, Projects:

- Study of Stress-Induced Proteomic Changes in Hippocampus of Pregnant Rats
- Proteomic Analysis of Seminal Plasma from Normozospermic and None-Obustractive Azoospermic (NOA) Men

2005-2009 Protein Chemistry Lab, Biotechnology & Rabies Department, Pasteur Institute of Iran, Projects:

- Comparative Study of Protein Profiles of Male and Female Mouse Brain Infected by Rabies Virus in Five Stages: Incubation Period, Prodrome, Acute Neurological Phase, Coma and Death
- Proteomics Analysis of Human Brain Tissue Infected by Street Rabies Virus
- Proteomics Analysis of LPS Treated J774.A1 Macrophage-Like Cell Line Before and after treatment with Cyclooxygenase-2
- Biophysical and Electropharmacological Properties of Single mitoKATP Channel in Rat Brain Mitochondrial Inner Membrane
- Protein Profiling of Mice Spleen Lymphocytes Infected by Rabies Viruses
- Protein Characterization of Iranian Scorpion Hemiscorpius lepturus Venom

2002-2003 Medical lab of Labbafi Nejad hospital

BOOKS

2023 **Meyfour, A.**, Baharvand, H., Organoids. Khaneh zistshenasi Press.

2023 **Meyfour, A.**, Saeedi, Y., Applied Bioinformatics-Molecular ducking. Jahad daneshgahi Press.

2015 Rezaei-Tavirani, M., Hasanzadeh, H., **Meyfour, A.**, Fazeli, Z., Safaee, A., Soheili, M. K. Biomarker Discovery: Liquid Chromatography, Electrophoresis and Microarray. 2015. Andishe Zohour Press. (In Persian)

CONFERENCE ABSTRACTS & PROCEEDINGS

2019 **Meyfour, A.**, Pahlavan, S., Baharvand, H., Salekdeh, G. H. Up-Regulation of a Male-Specific H3K4 Demethylase, KDM5D, is Required for Cardiomyocyte Differentiation. 2019. 20th Royan International Twin congress, Tehran, Iran. (Oral, Chairperson)

2017 **Meyfour, A.**, Ansari, H., Pahlavan, S., Rezaei-Tavirani, M., Baharvand, H., Salekdeh, G. H. TBL1Y, a Y chromosome missing protein promotes cardiac differentiation of human embryonic stem cells. 2017. Human Proteome Organization Congress, Dublin, Ireland. (Oral)

2017 **Meyfour, A.**, Ansari, H., Pahlavan, S., Rezaei-Tavirani, M., Baharvand, H., Salekdeh, G. H. Human Y Chromosome Genes Regulate Human Embryonic Stem Cell Differentiation to Cardiac Cell. 2017. 17th Chromosome-Centric Human Proteome Project Symposium, Tehran, Iran. (Oral)

2017 **Meyfour, A.**, Ansari, H., Pahlavan, S., Rezaei-Tavirani, M., Baharvand, H., Salekdeh, G. H. TBL1Y knock down results in malfunction of human embryonic stem cells derived-cardiomyocytes by suppressing of Notch signaling. 2017. The 2nd National Festival & International Congress on Stem Cell & Regenerative Medicine, Tehran, Iran. (Poster)

2013 **Meyfour, A.**, Sadeghi, M. R., Rezaei-Tavirani, M. Common Proteomic Technologies, Applications, and their Limitations. 2013. 2th National Seminar on the Role of Medical Basic Sciences on Health Promotion, SBMU, Tehran, Iran. (Poster)

2013 **Meyfour, A.**, Rezaei-Tavirani, M. Isoelectric Focusing Optimization of Female Mouse Brain Proteins. 2013. 2th National Seminar on the Role of Medical Basic Sciences on Health Promotion, SBMU, Tehran, Iran. (Poster)

2012 **Meyfour, A.**, Lakpour, N., Akhondi, M. M., Sadeghi, M. R. Proteomic Analysis of Seminal Plasma from Normozospermic and None-obstructive Azoospermic (NOA) Men to Discover New Markers. 2012. 7th European Congress of Andrology (ECA), Berlin, Germany. (Poster)

2010 Ardekani, A. M., Maghsudi, N., **Meyfour, A.**, Ghasemi, R., Lakpour, N., Nooshinfar, E., Ghaempanah, Z. Stress- Induced Proteomic Changes in the Hippocampus of Pregnant Wistar Rats. 2010. The Third Iranian Proteomics Congress. Pasteur institute, Tehran, Iran. (Poster)

2010 Shahbazzadeh**,** D., Pooshang, K. B., Hosseini-Nejad, M., Ghamnak, A., **Meyfour, A.**, Vaziri, B. Biological Analysis and Proteome Mapping of Hemiscorpius lepturus

Venom. 2010. The Third Iranian Proteomics Congress. Pasteur institute, Tehran, Iran. (Poster)

2009 **Meyfour, A.**, Eslami, N., Fayaz, A., Vaziri, B. Proteomics Analysis of Mouse Brain Infected with Rabies Virus. 2009. HEC – COMSTECH – NCP Thematic Workshop in Frontier Technologies on Proteomics in Health & Disease. Islamabad, Pakistan. (Oral)

2009 Torkashvand, F., Eslami, N., Fayaz, A., **Meyfour**, **A.**, Vaziri, B. Molecular Survey of Different Immune Responses to Rabies Virus Strains: A Proteomics Analysis of Infected Mice Spleen Lymphocytes. 2009. The Second Iranian Proteomics Congress. Tehran, Iran. (Poster)

2007 **Meyfour, A.**, Eslami, N., Fayaz, A., Vaziri, B. Decreasing the Chaperon Molecules in the Brain of Mice Infected by Rabies Virus: A Proteomics Investigation. 2007. The 1st International Congress on Health Genomics & Biotechnology and 4th Iranian Congress of Genetic Disorders and Disabilities. Tehran, Iran. (Oral)

2007 **Meyfour, A.**, Fayaz, A., Eslami, N., Motevaze, K., Adeli, A., Vaziri, B. Study of Protein Profile of Mouse Brain after Infection by Rabies Virus. 2007. The Second International Symposium on Molecular Technology and Cell Death, Tehran, Iran. (Poster)

2007 **Meyfour, A.**, Fayaz, A., Eslami, N., Motevaze, K., Adeli, A., Vaziri, B. Two Dimensional Electrophoresis Proteins Profiling of Mouse Brain infected by Rabies Virus. 2007. The First Iranian Proteomics Congress, University of Tehran, Tehran, Iran. (Poster)

TEACHING EXPERIENCES

2021 Proteomics for MSc Students in Biochemistry.

2018 Molecular pathophysiology of inflammatory bowel disease (IBD) for MD and PhD Students.

2015 Proteins in diseases for Undergraduate Students.

2010 Proteomics and electrophoresis for MSc and PhD Students.

2011 Theoretical and Practical Trainer in Genomics & Proteomics Workshop. Biotechnology Research Center. Avicenna Research Institute, Tehran, Iran.

2007 Technical Assistant in Two-Dimensional Electrophoresis & Proteomics Workshop, Eastern Mediterranean Health Genomics & Biotechnology Network, Tehran, Iran.

2006 Theoretical and Practical Trainer in a training course entitled: An Introduction to Basic Methods in Biotechnology. Biotechnology Research Center, Pasteur Institute of Iran.

2006 Trainer in Electronic and Practical Proteomics Workshop, Biotechnology Research Center, Pasteur Institute of Iran.

LABORATORY METHOD EXPERIENCES

1. Organoid culture
2. siRNA mediated Gene Knockdown
3. Bioinformatic data analysis
4. Culture, maintenance and characterization of embryonic stem cells (ESC) and induced pluripotent stem cells (iPSC) and the scale-up culture of these cells
5. Differentiation of ESC and iPSC to cardiomyocyte, hepatocyte and oligodendrocyte
6. Western blot
7. PCR and qRT-PCR
8. Immunohisto/cyto staining
9. Two-dimensional gel electrophoresis
10. Image analysis with PG200, Image Master and ImageJ softwares
11. Amino acid analysis
12. Flow cytometry
13. Mammalian cell culture
14. Apoptosis assays

PARTICIPATION in CONFERENCE & WORKSHOP

2019 Chairperson and invited speaker at 15th Royan International Congress on Stem Cell Biology & Technology, Tehran, Iran.

2017 Executive committee at 17th C-HPP Symposium, Tehran, Iran.

2016 Participate in "Proteomics in medical sciences" workshop, Royan Institute, Tehran, Iran.

2015 Participate in "NGS data analysis and bioinformatics" workshop, Royan Institute, Tehran, Iran.

2015 Participate in "2nd Human Y Chromosome Proteome Project Symposium", Royan Institute, Tehran, Iran.

2012 Participate in "7th European Congress of Andrology (ECA)", Berlin, Germany.

2011 Participate in "biosafety and rescue" workshop, Avicenna Institute, Tehran, Iran.

2010 Participate in third Iranian proteomics congress, Pasteur Institute, Tehran, Iran.

2009 Participate in second Iranian proteomics congress, Royan Institute, Tehran, Iran.

2009 Participate in HEC – COMSTECH – NCP Thematic Workshop in Frontier Technologies on Proteomics in Health & Disease. Islamabad, Pakistan.

2009 Participate in proteomics workshop, Royan Institute, Tehran, Iran.

2007 Participate in The 5th National Biothechnology Congress, Tehran, Iran.

2006 Participate in "biosafety in molecular lab" workshop, Pasteur Institute, Tehran, Iran

OTHER ACITIVITIES

2019 Reviewer of Digestive Diseases and Sciences journal, Springer.
2019 Reviewer of Gastroenterology and hepatology from bed to bench.
2018 Reviewer of International Journal of Cancer Management.

2012-2014 Reviewer of Journal of Paramedical Sciences.

2007-2008 Writer in Iranian Proteomics Society Newsletter

PROFESSIONAL AFFILIATIONS

2017-present Member of International Human Proteome Project (HPP).
2007-present Member of Proteomics Society, Tehran, Iran.
2012-2014 Member of Student Research Committee, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

COMPUTER SKILLS

Knowledge of working with Bioinformatics databases and software including:
Rstudio
MATLAB
High-throughput data analysis
VectorNTI
Gene runner
Prism Grafics software
Rest
Image Master
PG200
Image J
Photoshop

Microsoft Office

REFEREES

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Prof. Hossein Baharvand	baharvand@royaninstitute.org