



## Nima Aghaeepour

Anesthesiology, Perioperative and Pain Medicine Professor and Professor of Pediatrics (Neonatology) and of Biomedical Data Science

### CONTACT INFORMATION

- **Alternate Contact**

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### Bio

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#### BIO

Nima Aghaeepour is a machine learning and artificial intelligence scientist and the Anesthesiology, Perioperative and Pain Medicine II Endowed Professor, and Professor of Pediatrics, and of Biomedical Data Science at Stanford University. His laboratory develops computational methods to study clinical and biological modalities in translational settings.

Dr. Aghaeepour primarily focuses on leveraging multiomics studies, wearable devices, and electronic health records to address clinical challenges in perioperative care and maternal and child health, with a particular focus on interventional settings including operating rooms, ICUs, labor and delivery, and NICUs. Prior to his faculty role, Dr. Aghaeepour earned his B.Sc. in Computer Science from the University of Tehran, followed by a Ph.D. in Bioinformatics from the University of British Columbia and a postdoctoral fellowship at Stanford University.

Dr. Aghaeepour is an alumnus of Stanford's Graduate School of Business Ignite program, a Biodesign Faculty Fellow, and a SPARK fellow and his laboratory provides training on the interface of academia and entrepreneurship. He regularly co-founds or serves on scientific advisory boards of startup companies and is committed to fostering entrepreneurship among his trainees through Stanford's unique programs. Beyond his scientific pursuits, Dr. Aghaeepour is an experienced pilot, skydiver, and wingsuiter.

#### ACADEMIC APPOINTMENTS

- Professor (Research), Anesthesiology, Perioperative and Pain Medicine
- Professor (Research), Pediatrics - Neonatology
- Professor (Research), Department of Biomedical Data Science
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

## **ADMINISTRATIVE APPOINTMENTS**

- Vice Chair for Research - Data Science, Department of Anesthesiology, Perioperative and Pain Medicine, Stanford University, (2022- present)
- Chair, Education Committee, Maternal and Child Health Research Institute, Stanford University, (2025- present)
- Co-chair, Computational Systems Immunology PhD Program, Stanford Immunology IDP, Stanford University, (2022- present)

## **HONORS AND AWARDS**

- Top 10 Clinical Research Achievement Award for 2025, Clinical Research Forum, Washington DC (2026)
- Weston Havens Award, Stanford SPARK Program in Translational Research (2026)
- Anesthesiology, Perioperative and Pain Medicine II Endowed Chair, Stanford University (2025)
- Best of ASPEN Award, American Society for Parenteral and Enteral Nutrition (2025)
- Bronze Award, Stanford-UCSF Pediatric Device Competition (2024)
- Elected Member of College of Fellows, American Institute for Medical and Biological Engineering (2024)
- Excellence in Improvement Publication Award, Stanford Medicine Center for Improvement Evaluation (2024)
- Honorary Doctor of Science, Asian Institute of Public Health (2024)
- Professor-in-Residence, StartX (2023)
- SPARK Scholar, Stanford University (2023)
- Endowment for Computational Research in Prematurity, Alfred E. Mann Family Foundation (2022)
- Biodesign Faculty Fellowship, Stanford University (2020)
- KL2 Clinical and Translational Science Fellow, National Center for Advancing Translational Sciences (2020)
- Next Gen Pregnancy, Burroughs Wellcome Fund (2019)
- Young Scientist, World Laureates Association (2019)
- Achievement Award, Chao-Huei Jeffrey Wang Memorial (2017)
- Ann Schreiber Award, Ovarian Cancer Research Fund (2014)
- Fellow, Canadian Institute of Health Research (2014)
- Scholar, International Society for Advancement of Cytometry (2012)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member, Association of University Anesthesiologists (2025 - present)
- Member, American Society for Parenteral and Enteral Nutrition (2025 - present)
- Member, Society for Pediatric Research (2024 - present)
- Member, American Society of Anesthesiologists (2023 - present)
- Member, American Heart Association (2022 - present)
- Member, The Society for Reproductive Investigations (2020 - present)
- Member, International Society for Computational Biology (2012 - present)
- Member, International Society for Advancement of Cytometry (2009 - present)

## **PROFESSIONAL EDUCATION**

- Doctor of Philosophy (Ph.D.), University of British Columbia , Strategic Training Program in Bioinformatics for Health Research (2013)
- Bachelor of Science, University of Tehran , Computer Science (2008)

## LINKS

- Homepage: <http://nalab.stanford.edu>
- LinkedIn: <https://www.linkedin.com/in/naghaeep/>
- Twitter: <https://twitter.com/NimaAghaeepour>
- Google Scholar: <https://scholar.google.ca/citations?user=VajMetgAAAAJ&hl=en>

## Teaching

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### COURSES

#### 2024-25

- Essential Methods in Computational and Systems Immunology: IMMUNOL 207 (Spr)

#### 2023-24

- Essential Methods in Computational and Systems Immunology: IMMUNOL 207 (Spr)

#### 2022-23

- Essential Methods in Computational and Systems Immunology: IMMUNOL 207 (Spr)

### STANFORD ADVISEES

#### Med Scholar Project Advisor

Yemisi Joseph

#### Doctoral Dissertation Reader (AC)

Alea Delmastro

#### Postdoctoral Faculty Sponsor

. Akanksha, Bernard Mawuli Cobbinah, Xiruo Ding, Abdul Badih El Ariss, Marc Ghanem, Tomin James, Mehrdad Kiamari, Junmo Kim, Yijie Li, Shadi Momtaten, Weijieying Ren, Amin Sadeghi, Saber Sheybani, Muhammad Usman, Rui Xu, Lei Xue, Yi Yan, Liu Yang

#### Doctoral Dissertation Advisor (AC)

Mihir Borkar, Maya Drusinsky, Chloe Kashiwagi, Perla Molina, David Seong

#### Postdoctoral Research Mentor

Mahbaneh Eshaghzadeh Torbati

## Publications

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### PUBLICATIONS

- **AI-guided precision parenteral nutrition for neonatal intensive care units.** *Nature medicine*  
Phongpreecha, T., Ghanem, M., Reiss, J. D., Oskotsky, T., Mataraso, S. J., De Francesco, D., Reincke, S. M., Espinosa, C., Chung, P., Ng, T., Costello, J. M., Sequoia, J. A., Razdan, et al  
2025
- **A machine learning approach to leveraging electronic health records for enhanced omics analysis (vol 7, pg 293, 2025) NATURE MACHINE INTELLIGENCE**  
Mataraso, S. J., Espinosa, C. A., Seong, D., Reincke, S., Berson, E., Reiss, J. D., Kim, Y., Ghanem, M., Shu, C., James, T., Tan, Y., Shome, S., Stelzer, et al  
2025
- **Epigenomic profile of GBA1 in Parkinson's disease.** *Parkinsonism & related disorders*

- Berson, E., Zaghroun, R., Santoro, M., Bukhari, S., Seong, D., Shu, C. H., Perna, A., James, T., Montine, K. S., Serrano, G. E., Beach, T. G., Keene, C. D., Chang, et al  
2025; 140: 108066
- **Leveraging electronic health records from two hospital systems identifies male infertility-associated comorbidities across time.** *Communications medicine*  
Woldemariam, S. R., Xie, F., Roldan, A., Roger, J., Tang, A. S., Oskotsky, T. T., Stevenson, D. K., Lathi, R. B., Rajkovic, A., Allen, I. E., Aghaeepour, N., Eisenberg, M., Sirota, et al  
2025; 5 (1): 380
  - **Placental epigenetic clocks derived from crowdsourcing: Implications for the study of accelerated aging in obstetrics.** *iScience*  
Bhatti, G., Sufriyana, H., Romero, R., Patel, T., Tekola-Ayele, F., Alsaggaf, I., Gomez-Lopez, N., Su, E. C., Done, B., Hoffmann, S., van Bommel, A., Wan, C., Albrecht, et al  
2025; 28 (8): 113181
  - **Deep learning-based cell type profiles reveal signatures of Alzheimer's disease resilience and resistance.** *Brain : a journal of neurology*  
Berson, E., Perna, A., Bukhari, S., Kim, Y., Xue, L., Seong, D., Mataraso, S., Ghanem, M., Chang, A. L., Montine, K. S., Keene, C. D., Kasowski, M., Aghaeepour, et al  
2025
  - **Benchmarking of pre-training strategies for electronic health record foundation models.** *JAMIA open*  
Mataraso, S., D'Souza, S., Seong, D., Berson, E., Espinosa, C., Aghaeepour, N.  
2025; 8 (4): ooaf090
  - **Metabolomic Profiles During and After a Hypertensive Disorder of Pregnancy: The EPOCH Study.** *International journal of molecular sciences*  
Hlatky, M. A., Shu, C. H., Bararpour, N., Murphy, B. M., Sorondo, S. M., Leeper, N. J., Wong, F., Stevenson, D. K., Shaw, G. M., Stefanick, M. L., Boyd, H. A., Melbye, M., Sedan, et al  
2025; 26 (13)
  - **Protocol: the International Milk Composition (IMiC) Consortium - a harmonized secondary analysis of human milk from four studies.** *Frontiers in nutrition*  
Fehr, K., Mertens, A., Shu, C. H., Dailey-Chwalibóg, T., Shenhav, L., Allen, L. H., Beggs, M. R., Bode, L., Chooniedass, R., DeBoer, M. D., Deng, L., Espinosa, C., Hampel, et al  
2025; 12: 1548739
  - **Predicting Placenta Accreta Spectrum Disorder Through Machine Learning Using Metabolomic and Lipidomic Profiling and Clinical Characteristics.** *Obstetrics and gynecology*  
Miller, S., Lyell, D., Maric, I., Lancaster, S., Sylvester, K., Contrepolis, K., Kruger, S., Burgess, J., Stevenson, D., Aghaeepour, N., Snyder, M., Zhang, E., Badillo, et al  
2025; 145 (6): 721-731
  - **StrokeCog-15 Is an Efficient Neuropsychological Battery to Screen for Cognitive Impairment in Chronic Stroke.** *Stroke*  
Drag, L. L., Mlynash, M., Aslan, A., Musabbir, M., Bradley, A., Lansberg, M. G., Allan, S. M., Aghaeepour, N., Smith, C., Buckwalter, M. S.  
2025
  - **Digital twins, synthetic patient data, and in-silico trials: can they empower paediatric clinical trials?** *The Lancet. Digital health*  
Pammi, M., Shah, P. S., Yang, L. K., Hagan, J., Aghaeepour, N., Neu, J.  
2025: 100851
  - **A Foundation Model for Perioperative Outcome Prediction**  
Han, L., Aghaeepour, N.  
LIPPINCOTT WILLIAMS & WILKINS.2025: 1160-1161
  - **Modification of Post-operative Inflammation Through Infusion of a Young Donor Plasma Fraction in Older Patients**  
Tsai, A., Xue, L., Gao, X., McAllister, T., Tingle, M., Porras, G., Feinstein, I., Feyaerts, D., Verdonk, F., Sabayev, M., Hedou, J., Ganio, E., Berson, et al  
LIPPINCOTT WILLIAMS & WILKINS.2025: 965-967
  - **Parkinson's disease is characterized by vitamin B6-dependent inflammatory kynurenine pathway dysfunction.** *NPJ Parkinson's disease*  
Wilson, E. N., Umans, J., Swarovski, M. S., Minhas, P. S., Mendiola, J. H., Middtun, Ø., Ulvik, A., Shahid-Besanti, M., Linortner, P., Mhatre, S. D., Wang, Q., Channappa, D., Corso, et al

2025; 11 (1): 96

- **Author Correction: AI-guided precision parenteral nutrition for neonatal intensive care units.** *Nature medicine*  
Phongpreecha, T., Ghanem, M., Reiss, J. D., Oskotsky, T. T., Mataraso, S. J., De Francesco, D., Reincke, S. M., Espinosa, C., Chung, P., Ng, T., Costello, J. M., Sequoia, J. A., Razdan, et al  
2025
- **A call to action to address escalating global threats to academic research** *INNOVATION*  
Piret, G., Fung, F., Fullerton, J., Fico, G., Ponkratov, D., Chen, W., Latorre, D., Wan, K. Y., Aghaeepour, N., Welgryn, J., Razi, A., Silveyra, P., Altun, et al  
2025; 6 (4)
- **A call to action to address escalating global threats to academic research.** *Innovation (Cambridge (Mass.))*  
Piret, G., Fung, F. M., Fullerton, J., Fico, G., Ponkratov, D., Chen, W., Latorre, D., Wan, K. Y., Aghaeepour, N., Welgryn, J., Razi, A., Silveyra, P., Altun, et al  
2025; 6 (4): 100758
- **A Foundation Model for Perioperative Outcome Prediction**  
Han, L., Aghaeepour, N.  
LIPPINCOTT WILLIAMS & WILKINS.2025: 46
- **Cellular immune changes during severe antisense oligonucleotide-associated thrombocytopenia in a nonhuman primate model.** *Journal of immunology (Baltimore, Md. : 1950)*  
Gupta, S., Shen, L., Henry, S. P., Aghaeepour, N., Narayanan, P., Maecker, H. T.  
2025
- **Mitigation of outcome conflation in predicting patient outcomes using electronic health records.** *Journal of the American Medical Informatics Association : JAMIA*  
Reincke, S. M., Espinosa, C., Chung, P., James, T., Berson, E., Aghaeepour, N.  
2025
- **The human milk microbiome varies by environmental factors and is differentially associated with infant growth: findings from the IMiC Study**  
Manus, M., Fehr, K., Shu, C., Mertens, A., DeBoer, M., McDermid, J., Kolsteren, P., Dailey-Chwalibog, T., Toe, L., Shafiq, Y., Jehan, F., Muhammad, A., Aghaeepour, et al  
WILEY.2025: 105
- **Mediterranean vs. Western diet effects on the primate cerebral cortical pre-synaptic proteome: Relationships with the transcriptome and multi-system phenotypes.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*  
Berson, E., Frye, B. M., Gajera, C. R., Saarunya, G., Perna, A., Phongpreecha, T., Shome, S., Negrey, J. D., Aghaeepour, N., Montine, T. J., Craft, S., Register, T. C., Shively, et al  
2025; 21 (3): e70041
- **Reducing Barriers to AI Deployment in Pathology: An Image Source-Agnostic AI Pipeline for Quantifying HER2 Amplification**  
Usman, M., Tokuyama, M., Bean, G., Dussaq, A., Montine, T., Phongpreecha, T., Aghaeepour, N., Yang, E.  
ELSEVIER SCIENCE INC.2025
- **Persistence of a Proteomic Signature After a Hypertensive Disorder of Pregnancy.** *Hypertension (Dallas, Tex. : 1979)*  
Hlatky, M. A., Shu, C. H., Stevenson, D. K., Shaw, G. M., Stefanick, M. L., Boyd, H. A., Melbye, M., Plummer, X. D., Sedan, O., Wong, R. J., Aghaeepour, N., Winn, V. D.  
2025
- **Exposure to autoimmune disorders is associated with increased Alzheimer's disease risk in a multi-site electronic health record analysis.** *Cell reports. Medicine*  
Ramey, G. D., Tang, A., Phongpreecha, T., Yang, M. M., Woldemariam, S. R., Oskotsky, T. T., Montine, T. J., Allen, I., Miller, Z. A., Aghaeepour, N., Capra, J. A., Sirota, M.  
2025: 101980
- **Infusion of young donor plasma components in older patients modifies the immune and inflammatory response to surgical tissue injury: a randomized clinical trial.** *Journal of translational medicine*  
Gaudilliere, B., Xue, L., Tsai, A. S., Gao, X., McAllister, T. N., Tingle, M., Porras, G., Feinstein, I., Feyaerts, D., Verdonk, F., Sabayev, M., Hedou, J., Ganio, et al

2025; 23 (1): 183

- **PregMedNet: Multifaceted Maternal Medication Impacts on Neonatal Complications.** *medRxiv : the preprint server for health sciences*  
Kim, Y., Marić, I., Kashiwagi, C. M., Han, L., Chung, P., Reiss, J. D., Butcher, L. D., Caoili, K. J., Berson, E., Xue, L., Espinosa, C., James, T., Shome, et al  
2025
- **Innovations in acute and chronic pain biomarkers: enhancing diagnosis and personalized therapy.** *Regional anesthesia and pain medicine*  
Mackey, S., Aghaeepour, N., Gaudilliere, B., Kao, M. C., Kaptan, M., Lannon, E., Pfyffer, D., Weber, K.  
2025; 50 (2): 110-120
- **Association between gestational weight gain and adverse pregnancy outcomes: cohort analysis from South Asia and Sub-Saharan Africa.** *BMJ public health*  
Sebastião, Y. V., Thiruvengadam, R., Khanam, R., Mehmood, U., Pervin, J., Desiraju, B. K., Kabole, F., Ahmed, S., Aktar, S., Chowdhury, N. H., Qazi, M. F., Nisar, I., et al  
2025; 3 (1): e000900
- **Information Extraction from Clinical Texts with Generative Pre-trained Transformer Models.** *International journal of medical sciences*  
Kim, M. S., Chung, P., Aghaeepour, N., Kim, N.  
2025; 22 (5): 1015-1028
- **Advancing neonatal health: the promise and challenges of universal genome sequencing in newborn screening.** *Pediatric research*  
Stevenson, D. K., Wong, R. J., Reiss, J. D., Shaw, G. M., Aghaeepour, N., Mahzarnia, A., Marić, I.  
2025
- **A machine learning approach to leveraging electronic health records for enhanced omics analysis.** *Nature machine intelligence*  
Mataraso, S. J., Espinosa, C. A., Seong, D., Reincke, S. M., Berson, E., Reiss, J. D., Kim, Y., Ghanem, M., Shu, C. H., James, T., Tan, Y., Shome, S., Stelzer, et al  
2025; 7 (2): 293-306
- **A machine learning approach to leveraging electronic health records for enhanced omics analysis** *NATURE MACHINE INTELLIGENCE*  
Mataraso, S. J., Espinosa, C. A., Seong, D., Reincke, S., Berson, E., Reiss, J. D., Kim, Y., Ghanem, M., Shu, C., James, T., Tan, Y., Shome, S., Stelzer, et al  
2025
- **Impact of digital health interventions on glycemic control and weight management.** *NPJ digital medicine*  
Veluvali, A., Dehghani Zahedani, A., Hosseinian, A., Aghaeepour, N., McLaughlin, T., Woodward, M., DiTullio, A., Hashemi, N., Snyder, M. P.  
2025; 8 (1): 20
- **Transgenerational associations between newborn metabolic profiles and bronchopulmonary dysplasia in neonates born to mothers with an obese phenotype.** *Scientific reports*  
Reiss, J. D., Yang, W., Chang, A. L., Long, J. Z., Marić, I., Profit, J., Sylvester, K. G., Stevenson, D. K., Aghaeepour, N., Shaw, G. M.  
2025; 15 (1): 1144
- **LIPIDOMIC ALTERATIONS AT BIRTH AND PREDISPOSITION TO BRONCHOPULMONARY DYSPLASIA**  
Reiss, J., Phongpreecha, T., Trowbridge, C., Michael, B., Lancaster, S., Kasowski, M., Snyder, M., Maric, I., Stevenson, D. K., Aghaeepour, N., Sylvester, K., Shaw, G. M.  
SAGE PUBLICATIONS LTD.2025: 75-76
- **Multiomics Profiling and Predictive Modeling of Necrotizing Enterocolitis**  
Ektare, S., Espinosa, C., Chang, A., Reiss, J., Wong, R. J., Gaudilliere, B., Shaw, G. M., Sylvester, K., Angst, M. S., Stevenson, D., Aghaeepour, N.  
SAGE PUBLICATIONS LTD.2025: 240-241
- **Prediction of late-onset preeclampsia using plasma proteomics: a longitudinal multi-cohort study.** *Scientific reports*  
Andresen, I. J., Zucknick, M., Degnes, M. L., Angst, M. S., Aghaeepour, N., Romero, R., Roland, M. C., Tarca, A. L., Westerberg, A. C., Michelsen, T. M.  
2024; 14 (1): 30813
- **Basic Science and Pathogenesis.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*  
Berson, E., Frye, B. M., Perna, A., Phongpreecha, T., Shome, S., Clarke, G., Negrey, J. D., Aghaeepour, N., Montine, T. J., Craft, S., Register, T. C., Shively, C. A.

2024; 20 Suppl 1: e089274

- **Basic Science and Pathogenesis.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*  
Berson, E., Perna, A., Phongpreecha, T., Aghaeepour, N., Montine, T. J.  
2024; 20 Suppl 1: e087057
- **Postpartum sleep quality and physical activity profiles following elective cesarean delivery: a longitudinal prospective cohort pilot study utilizing a wearable actigraphy device.** *International journal of obstetric anesthesia*  
Pandal, P., Carvalho, B., Shu, C. H., Ciechanowicz, S., O'Carroll, J., Aghaeepour, N., Fowler, C., Simons, L. E., Druzin, M. L., Panelli, D. M., Sultan, P.  
2024; 62: 104305
- **Impact of air pollution exposure on cytokines and histone modification profiles at single-cell levels during pregnancy.** *Science advances*  
Jung, Y. S., Aguilera, J., Kaushik, A., Ha, J. W., Cansdale, S., Yang, E., Ahmed, R., Lurmann, F., Lutzker, L., Hammond, S. K., Balmes, J., Noth, E., Burt, et al  
2024; 10 (48): eadp5227
- **Prediction of risk for early or very early preterm births using high-resolution urinary metabolomic profiling.** *BMC pregnancy and childbirth*  
Zhang, Y., Sylvester, K. G., Wong, R. J., Blumenfeld, Y. J., Hwa, K. Y., Chou, C. J., Thyparambil, S., Liao, W., Han, Z., Schilling, J., Jin, B., Marić, I., Aghaeepour, et al  
2024; 24 (1): 783
- **Towards a new taxonomy of preterm birth.** *Journal of perinatology : official journal of the California Perinatal Association*  
Stevenson, D. K., Chang, A. L., Wong, R. J., Reiss, J. D., Gaudillière, B., Sylvester, K. G., Ling, X. B., Angst, M. S., Shaw, G. M., Katz, M., Aghaeepour, N., Marić, I.  
2024
- **Towards a new taxonomy of preterm birth** *Journal of Perinatology*  
Stevenson, D. K., Chang, A. L., Wong, R. J., Reiss, J. D., Gaudillière, B., Sylvester, K. G., Ling, X. B., Angst, M. S., Shaw, G. M., Katz, M., Aghaeepour, N., Marić, I.  
2024
- **Corrigendum to "Mode of delivery predicts postpartum maternal leukocyte telomere length" [Eur. J. Obstetr. Gynecol. Reprod. Biol. 300 (2024) 224-229].** *European journal of obstetrics, gynecology, and reproductive biology*  
Panelli, D. M., Mayo, J. A., Wong, R. J., Becker, M., Feyaerts, D., Marić, I., Wu, E., Gotlib, I. H., Gaudillière, B., Aghaeepour, N., Druzin, M. L., Stevenson, D. K., Shaw, et al  
2024; 304: 35
- **An immune signature of postoperative cognitive decline: A prospective cohort study.** *International journal of surgery (London, England)*  
Verdonk, F., Cambriel, A., Hedou, J., Ganio, E., Bellan, G., Gaudilliere, D., Einhaus, J., Sabayev, M., Stelzer, I. A., Feyaerts, D., Bonham, A. T., Ando, K., Choisy, et al  
2024
- **Early prediction of mortality and morbidities in VLBW preterm neonates using machine learning.** *Pediatric research*  
Shu, C. H., Zebda, R., Espinosa, C., Reiss, J., Debuyserie, A., Reber, K., Aghaeepour, N., Pammi, M.  
2024
- **VMAP: Vaginal Microbiome Atlas during Pregnancy.** *JAMIA open*  
Parraga-Leo, A., Oskotsky, T. T., Oskotsky, B., Wibrand, C., Roldan, A., Tang, A. S., Ha, C. W., Wong, R. J., Minot, S. S., Androletti, G., Kosti, I., Theis, K. R., Ng, et al  
2024; 7 (3): ooae099
- **Parkinson's disease is characterized by vitamin B6-dependent inflammatory kynurenine pathway dysfunction.** *Research square*  
Wilson, E., Umans, J., Swarovski, M., Minhas, P., Middtun, Ø., Ulvik, A. A., Shahid-Besanti, M., Linortner, P., Mhatre, S., Wang, Q., Channappa, D., Corso, N., Tian, et al  
2024
- **Generating pregnant patient biological profiles by deconvoluting clinical records with electronic health record foundation models.** *Briefings in bioinformatics*  
Seong, D., Mataraso, S., Espinosa, C., Berson, E., Reincke, S. M., Xue, L., Kashiwagi, C., Kim, Y., Shu, C. H., Chung, P., Ghanem, M., Xie, F., Wong, et al  
2024; 25 (6)

- **Factor Eight Inhibitor Bypass Activity use in cardiac surgery: A propensity matched analysis of safety outcomes.** *Anesthesiology*  
Nicholas, J. A., Harrison, N., Chakraborty, D., Chang, A. L., Aghaeepour, N., Wirtz, K., Nielson, E., Parsons, C., Jackson, E., Panigrahi, A. K.  
2024
- **Single-cell peripheral immunoprofiling of lewy body and Parkinson's disease in a multi-site cohort.** *Molecular neurodegeneration*  
Phongpreecha, T., Mathi, K., Cholerton, B., Fox, E. J., Sigal, N., Espinosa, C., Reincke, M., Chung, P., Hwang, L. J., Gajera, C. R., Berson, E., Perna, A., Xie, et al  
2024; 19 (1): 59
- **Unlocking human immune system complexity through AI.** *Nature methods*  
Berson, E., Chung, P., Espinosa, C., Montine, T. J., Aghaeepour, N.  
2024; 21 (8): 1400-1402
- **Artificial Intelligence in Perioperative Care: Opportunities and Challenges.** *Anesthesiology*  
Han, L., Char, D. S., Aghaeepour, N.  
2024; 141 (2): 379-387
- **Association of pregnancy complications and postpartum maternal leukocyte telomeres in two diverse cohorts: a nested case-control study.** *BMC pregnancy and childbirth*  
Panelli, D. M., Wang, X., Mayo, J., Wong, R. J., Hong, X., Becker, M., Aghaeepour, N., Druzin, M. L., Zuckerman, B. S., Stevenson, D. K., Shaw DrPH, G. M., Bianco, K.  
2024; 24 (1): 490
- **Mode of delivery predicts postpartum maternal leukocyte telomere length.** *European journal of obstetrics, gynecology, and reproductive biology*  
Panelli, D. M., Mayo, J. A., Wong, R. J., Becker, M., Feyaerts, D., Marić, I., Wu, E., Gotlib, I. H., Gaudillière, B., Aghaeepour, N., Druzin, M. L., Stevenson, D. K., Shaw, et al  
2024; 300: 224-229
- **Large Language Model Capabilities in Perioperative Risk Prediction and Prognostication.** *JAMA surgery*  
Chung, P., Fong, C. T., Walters, A. M., Aghaeepour, N., Yetisgen, M., O'Reilly-Shah, V. N.  
2024
- **Predicting Preterm Birth Using Proteomics.** *Clinics in perinatology*  
Marić, I., Stevenson, D. K., Aghaeepour, N., Gaudillière, B., Wong, R. J., Angst, M. S.  
2024; 51 (2): 391-409
- **Computational Approaches for Predicting Preterm Birth and Newborn Outcomes.** *Clinics in perinatology*  
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