



Brice Gaudilliere

Professor of Anesthesiology, Perioperative and Pain Medicine (MSD) and, by courtesy, of Pediatrics (Neonatology)

CLINICAL OFFICE (PRIMARY)

- **Anesthesia Department**

300 Pasteur Dr Rm S238

Grant Bldg

Stanford, CA 94305

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Bio

BIO

Born in France, Dr. Gaudilliere studied Engineering at Ecole Polytechnique before completing an MD-PhD degree from the Harvard-MIT Health Sciences and Technology program and a postdoctoral fellowship at Stanford University (Dr. Garry Nolan laboratory). Research in the Gaudilliere lab combines high parameter mass cytometry (suspension and imaging mass cytometry) with other proteomics approaches to study how the human immune system responds and adapts to physiological or pathological stressors. Ongoing studies focus on several clinical scenarios including, 1) immune mechanisms of surgical recovery and complications (NIGMSR35), 2) pregnancy and preterm birth (NICHDP01, DDCF, BMGF, ITI, MOD), 3) immune dysfunction and outcomes prediction in patients with COVID19 (Fast Grant, CEND award).

Dr. Gaudilliere is a Board-Certified Anesthesiologist and works clinically in the operating room 25% of his time.

CLINICAL FOCUS

- Anesthesia

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Anesthesiology, Perioperative and Pain Medicine
- Professor - University Medical Line (By courtesy), Pediatrics - Neonatology
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Wu Tsai Neurosciences Institute

HONORS AND AWARDS

- Promise in biomedical research, Doris Duke Charitable Foundation (2017)
- Kozaka research award, International Anesthesia Research Society (2013)

- Stanford Society for Physician Scholar's award, SSPS (2011, 2012)
- Albert J. Ryan Fellowship, Harvard Medical School (2004)
- Carnot Foundation Scholarship, Ecole Polytechnique, Paris, France (2000)
- George Lurcy's Fellowship, Harvard University (2000)

PROFESSIONAL EDUCATION

- BS, Ecole Polytechnique , Engineering (2000)
- PhD, Harvard Medical School , Neurobiology (2005)
- Medical Education: Harvard Medical School (2009) MA
- Residency: Stanford University Anesthesiology Residency (2013) CA
- Board Certification: Anesthesia, American Board of Anesthesiology (2014)

PATENTS

- Brice Gaudilliere, Gabriela Fragiadakis, Martin Angst, Garry Nolan. "United States Patent S13-373 Flow cytometry methods for the diagnosis of prolonged convalescence after traumatic injury", Leland Stanford Junior University
- Azad Bonni, Aryaman Shalizi, Brice Gaudilliere. "United States Methods and compositions for modulating synapse formation", Harvard University

LINKS

- Gaudilliere Lab: <https://gaudillierelab.stanford.edu/>
- CyTOF at the bedside (4 minute video): <https://www.fluidigm.com/articles/immune-signatures-predict-surgery-recovery>
- ChildX2016 - An immune clock of pregnancy: <http://childx.stanford.edu/video/2016-conference/brice-gaudilliere-development-term>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The advent of high dimensional flow cytometry has revolutionized our ability to study and visualize the human immune system. Our group combines high parameter mass cytometry (a.k.a Cytometry by Time of Flight Mass Spectrometry, CyTOF), with advanced bio-computational methods to study how the human immune system responds and adapts to acute physiological perturbations. The laboratory currently focuses on two clinical scenarios: surgical trauma and pregnancy.

Deep immune profiling of patients undergoing and recovering from surgery: Using high dimensional mass cytometry, we have recently shown that the signaling behavior of specific innate immune cells measured before surgery in patients blood was strongly associated with surgical recovery. Prospective validation of reported immune correlates of surgical recovery are underway. Ongoing work in humans and animal models focuses on the mechanisms by which pre-operative habilitation interventions may alter a patient's immune state to improve recovery after surgery.

Deep Immune profiling of normal and preterm pregnancy: Our group is an integral component of a multi-disciplinary effort aiming at understanding the mechanisms of preterm birth, and identifying predictive factors of premature delivery. We have now developed a pipeline and the analytical framework to integrate the single-cell analysis of immune signaling networks by mass cytometry and proteomic profiling of secreted serum factors with the precise phenotyping of pregnancy-related clinical outcomes. In a pilot cross-sectional study of non-pregnant women, we identified candidate immune signatures that differentiated women with a history of preterm or term pregnancies. Longitudinal studies in pregnant patients are ongoing to validate these findings.

CLINICAL TRIALS

- Detection of Immune Changes as a Result of Surgical Trauma in Human Subject, Not Recruiting
- Immune Modulation by Enhanced vs Standard Prehabilitation Program Before Major Surgery, Not Recruiting

- Immune-modulation Effects of an Arginine Rich Nutritional Supplement in Surgical Patients, Not Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Brian Smith

Postdoctoral Faculty Sponsor

Jakob Einhaus, Kotaro Miyazaki, Amy Tsai

Doctoral Dissertation Advisor (NonAC)

Maximilian Sabayev

Doctoral Dissertation Co-Advisor (NonAC)

Maigane Diop

Publications

PUBLICATIONS

- **Immune Modulation by Personalized vs Standard Prehabilitation Before Major Surgery: A Randomized Clinical Trial.** *JAMA surgery*
Cambriel, A., Tsai, A., Choisy, B., Sabayev, M., Hedou, J., Shelton, E., Singh, K., Amar, J., Badea, V., Bruckman, S., Ganio, E., Einhaus, J., Feyaerts, et al
2025
- **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
- **Discovery of sparse, reliable omic biomarkers with Stabl.** *Nature biotechnology*
Hédou, J., Marić, I., Bellan, G., Einhaus, J., Gaudillière, D. K., Ladant, F. X., Verdonk, F., Stelzer, I. A., Feyaerts, D., Tsai, A. S., Ganio, E. A., Sabayev, M., Gillard, et al
2024
- **Expanded vacuum-stable gels for multiplexed high-resolution spatial histopathology.** *Nature communications*
Bai, Y., Zhu, B., Oliveria, J., Cannon, B. J., Feyaerts, D., Bosse, M., Vijayaragavan, K., Greenwald, N. F., Phillips, D., Schurch, C. M., Naik, S. M., Ganio, E. A., Gaudilliere, et al
2023; 14 (1): 4013
- **Integrated Single-Cell and Plasma Proteomic Modeling to Predict Surgical Site Complications: A Prospective Cohort Study.** *Annals of surgery*
Rumer, K. K., Hedou, J., Tsai, A., Einhaus, J., Verdonk, F., Stanley, N., Choisy, B., Ganio, E., Bonham, A., Jacobsen, D., Warrington, B., Gao, X., Tingle, et al
1800
- **Integrated trajectories of the maternal metabolome, proteome, and immunome predict labor onset.** *Science translational medicine*
Stelzer, I. A., Ghaemi, M. S., Han, X., Ando, K., Hedou, J. J., Feyaerts, D., Peterson, L. S., Rumer, K. K., Tsai, E. S., Ganio, E. A., Gaudilliere, D. K., Tsai, A. S., Choisy, et al
2021; 13 (592)
- **Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions** *NATURE MACHINE INTELLIGENCE*
Culos, A., Tsai, A. S., Stanley, N., Becker, M., Ghaemi, M. S., Mcllwain, D. R., Fallahzadeh, R., Tanada, A., Nassar, H., Espinosa, C., Xenochristou, M., Ganio, E., Peterson, et al
2020

- **Preferential inhibition of adaptive immune system dynamics by glucocorticoids in patients after acute surgical trauma.** *Nature communications*
Ganio, E. A., Stanley, N. n., Lindberg-Larsen, V. n., Einhaus, J. n., Tsai, A. S., Verdonk, F. n., Culos, A. n., Gahemi, S. n., Rumer, K. K., Stelzer, I. A., Gaudilliere, D. n., Tsai, E. n., Fallahzadeh, et al
2020; 11 (1): 3737
- **An immune clock of human pregnancy** *SCIENCE IMMUNOLOGY*
Aghaeepour, N., Ganio, E. A., Mcilwain, D., Tsai, A. S., Tingle, M., Van Gassen, S., Gaudilliere, D. K., Baca, Q., McNeil, L., Okada, R., Ghaemi, M. S., Furman, D., Wong, et al
2017; 2 (15)
- **An immune clock of human pregnancy.** *Science immunology*
Aghaeepour, N. n., Ganio, E. A., Mcilwain, D. n., Tsai, A. S., Tingle, M. n., Van Gassen, S. n., Gaudilliere, D. K., Baca, Q. n., McNeil, L. n., Okada, R. n., Ghaemi, M. S., Furman, D. n., Wong, et al
2017; 2 (15)
- **Clinical recovery from surgery correlates with single-cell immune signatures.** *Science translational medicine*
Gaudilliere, B., Fragiadakis, G. K., Bruggner, R. V., Nicolau, M., Finck, R., Tingle, M., Silva, J., Ganio, E. A., Yeh, C. G., Maloney, W. J., Huddleston, J. I., Goodman, S. B., Davis, et al
2014; 6 (255): 255ra131-?
- **A machine learning model for frailty based on wearable device measurements.** *Communications medicine*
Culos, A., Manas, A., Shidara, K., Fallazadeh, R., Garcia-Garcia, F. J., Losa-Reyna, J., Alegre, L. M., Rodriguez-Manas, L., Chang, A. L., Espinosa, C., De Francesco, D., Phongpreecha, T., Becker, et al
2026
- **Preoperative lymphocyte signature predicts pancreatic fistula after pancreateoduodenectomy.** *Communications medicine*
Garnier, J., Bellan, G., Palen, A., Durand, X., Ewald, J., Ben Amara, A., Rouvière, M. S., Choisy, B., Verdonk, F., Gaudilliere, B., Gouarné, C., Turrini, O., Olive, et al
2026
- **Early gestational prediction of spontaneous preterm birth using a validated three-protein serum biomarker panel.** *BMC medicine*
Luo, Q., Wei, J., Ding, Y., Chen, Y., Wu, L., Chou, C. J., Luo, X., Ghafourian, N., Tao, J., Jin, B., Su, K. J., Mortensen, R. D., Schilling, et al
2026
- **Quantitative assessment of neonatal health using dried blood spot metabolite profiles and deep learning.** *Science translational medicine*
Chang, A. L., Reiss, J. D., Culos, A., Becker, M., Mayo, J. A., Marić, I., De Francesco, D., Phongpreecha, T., Espinosa, C. A., Mataraso, S. J., Berson, E., Kim, Y., Xue, et al
2026; 18 (833): eadv4942
- **Development and validation of a pre-trained language model for neonatal morbidities: a retrospective, multicentre, prognostic study.** *The Lancet. Digital health*
Xie, F., Chung, P., Reiss, J. D., Tjoa, E., De Francesco, D., Phongpreecha, T., Haberkorn, W., Chakraborty, D., Chang, A. L., James, T., Kim, Y., Mataraso, S., Espinosa, et al
2025: 100926
- **Brain-immune correlates of quality of life in adolescents with chronic musculoskeletal pain.** *Brain, behavior, and immunity*
Pascual-Diaz, S., Suñol, M., Hoeppli, M. E., Biggs, E., King, C. D., Aghaeepour, N., Angst, M. S., Ganio, E., Cambriel, A., Feyaerts, D., Gaudilliere, B., Stinson, J. N., Moayedi, et al
2025: 106225
- **AI learning for pediatric right ventricular assessment: development and validation across multiple centers.** *NPJ digital medicine*
Reddy, C., Yan, Y., Qiu, M., Tang, Y., Jin, B., Han, Z., Li, Y., Zhou, S., Tang, Q., Xiao, H., Yang, S., Wen, Q., Wu, et al
2025; 8 (1): 752
- **Systemic immune dysregulation in hypertensive disorders of pregnancy persists years after delivery.** *bioRxiv : the preprint server for biology*
Sabayev, M., Ganio, E. A., Stelzer, I. A., Sato, M., Cambriel, A., Bonham, T. A., Juvan, Z. N., Diop, M., Iyer, P., Sedan, O., Aghaeepour, N., Angst, M. S., Shaw, et al
2025
- **Immediate variations in high-dimensional circulating immune cells following pancreatectomy.** *Clinical & translational immunology*

- Garnier, J., Palen, A., Durand, X., Ewald, J., Amara, A. B., Rouvière, M. S., Granjeaud, S., Bellan, G., Choisy, B., Verdonk, F., Gaudilliere, B., Gouarne, C., Turrini, et al
2025; 14 (11): e70059
- **Single-cell-level digital twins for preterm birth prevention strategies.** *bioRxiv : the preprint server for biology*
Einhaus, J., Neidlinger, P., Fondeur, O., Sato, M., Anronikov, A., Miyazaki, K., Amar, J. N., Ando, K., Badea, V., Gaudilliere, D. K., Sabayev, M., Feyaerts, D., Diop, et al
2025
 - **Comparative single-cell immune responses in peripheral blood and lymph node of immunized SARS-CoV-2 challenged infant rhesus macaques.** *Frontiers in immunology*
Anronikov, S., Meikle, C., Milligan, E. C., Chen, H., Mukherjee, N., Bjornson, Z., Gaudillière, B., Jiang, S., Permar, S. R., Van Rompay, K. K., Nolan, G. P., De Paris, K., McIlwain, et al
2025; 16: 1599408
 - **Anticlustering for sample allocation to minimize batch effects.** *Cell reports methods*
Papenberg, M., Wang, C., Diop, M., Bukhari, S. H., Oskotsky, B., Davidson, B. R., Vo, K. C., Liu, B., Irwin, J. C., Combes, A. J., Gaudilliere, B., Li, J., Stevenson, et al
2025; 5 (8): 101137
 - **Vγ9Vδ2 T Cells Express an Antitumor Profile Associated with Anti-PD-(L)1 Responses and Activation Defects Restored by Anti-BTN3A in Triple-Negative Breast Cancer.** *Cancer immunology research*
Fattori, S., Gorvel, L., Rouvière, M. S., Granjeaud, S., Ben Amara, A., Richaud, M., Boucherit, N., Tarpin, C., Pakradouni, J., Hédou, J., Bellan, G., Gaudilliere, B., Charafe-Jauffret, et al
2025
 - **A Transcriptomics-Based Computational Drug Repositioning Pipeline Identifies Simvastatin And Primaquine As Novel Therapeutics For Endometriosis Pain.** *bioRxiv : the preprint server for biology*
Oskotsky, T. T., Tang, X., Arthurs, E., Govil, A., Abbasi, F., Bhoja, A., Bunis, D. J., Lau, A., Einhaus, J., Diop, M., Irwin, J. C., Gaudilliere, B., Stevenson, et al
2025
 - **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
 - **Single-cell omics technologies - Fundamentals on how to create single-cell looking glasses for reproductive health.** *American journal of obstetrics and gynecology*
Diop, M., Davidson, B. R., Fragiadakis, G. K., Sirota, M., Gaudillière, B., Combes, A. J.
2025; 232 (4S): S1-S20
 - **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
 - **Suppressive effects of deep balanced anesthesia on cellular immunity and protein expression: a randomized-controlled pilot study.** *BMC anesthesiology*
Nguyen, X. D., Horn, A., Fischer, D., Beck, G., Spannenberger, C. C., Gaudilliere, B., Horn, J., Thierse, H., Frietsch, T.
2025; 25 (1): 129
 - **Circulating neutralizing antibodies and SARS-CoV-2 variant replication following postvaccination infections.** *JCI insight*
Garcia-Knight, M. A., Kelly, J. D., Lu, S., Tassetto, M., Goldberg, S. A., Zhang, A., Pineda-Ramirez, J., Anglin, K., Davidson, M. C., Chen, J. Y., Fortes-Cobby, M., Park, S., Martinez, et al
2025; 10 (5)

- **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
- **IMPACT OF TCR AND BCR SIGNALING ON VACCINATION RESPONSE IN PREGNANT WOMEN**
Thiele, K., Urbschat, C., Stelzer, I., Elkjaer, M., Oubounyt, M., Kehribar, T., Pagenkemper, M., Hansen, G., Gaudilliere, B., Diemert, A., Becker, M., Baumbach, J., Arck, et al
ELSEVIER IRELAND LTD.2025: 3-4
- **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
- **Real world perspectives on endometriosis disease phenotyping through surgery, omics, health data, and artificial intelligence.** *npj women's health*
Nezhat, C. R., Oskotsky, T. T., Robinson, J. F., Fisher, S. J., Tsuei, A., Liu, B., Irwin, J. C., Gaudilliere, B., Sirota, M., Stevenson, D. K., Giudice, L. C.
2025; 3 (1): 8
- **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., Gaudilliere, 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., Gaudilliere, 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., Gaudilliere, B., Aghaeepour, N., Druzin, M. L., Stevenson, D. K., Shaw, et al
2024; 304: 35
- **Blood-brain barrier profile pretreatment is associated with hemorrhagic transformation after endovascular reperfusion.** *Annals of clinical and translational neurology*
Leigh, R., Seners, P., Rousseau, V., Christensen, S., Albucher, J. F., Drif, A., Cognard, C., Guenego, A., Viguier, A., Sommet, A., Raposo, N., Calviere, L., Januel, 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)
- **Early biological markers of post-acute sequelae of SARS-CoV-2 infection.** *Nature communications*
Lu, S., Peluso, M. J., Glidden, D. V., Davidson, M. C., Lugtu, K., Pineda-Ramirez, J., Tassetto, M., Garcia-Knight, M., Zhang, A., Goldberg, S. A., Chen, J. Y., Fortes-Cobby, M., Park, et al
2024; 15 (1): 7466
- **Optimized ultrasound neuromodulation for non-invasive control of behavior and physiology.** *Neuron*
Murphy, K. R., Farrell, J. S., Bendig, J., Mitra, A., Luff, C., Stelzer, I. A., Yamaguchi, H., Angelakos, C. C., Choi, M., Bian, W., Dilanni, T., Pujol, E. M., Matosevich, et al
2024
- **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
- **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
- **Predicting Spontaneous Preterm Birth Using the Immunome.** *Clinics in perinatology*
Feyaerts, D., Marić, I., Arck, P. C., Prins, J. R., Gomez-Lopez, N., Gaudillière, B., Stelzer, I. A.
2024; 51 (2): 441-459
- **Preoperative ketamine administration for prevention of postoperative neurocognitive disorders after major orthopedic surgery in elderly patients: A multicenter randomized blinded placebo-controlled trial.** *Anaesthesia, critical care & pain medicine*
Verdonk, F., Lambert, P., Gakuba, C., Nelson, A. C., Lescot, T., Garnier, F., Constantin, J. M., Saurel, D., Lasocki, S., Rineau, E., Diemunsch, P., Dreyfuss, L., Tavernier, et al
2024: 101387
- **Identifying therapeutic candidates for endometriosis through a transcriptomics-based drug repositioning approach.** *iScience*
Oskotsky, T. T., Bhoja, A., Bunis, D., Le, B. L., Tang, A. S., Kosti, I., Li, C., Houshdaran, S., Sen, S., Vallvé-Juanico, J., Wang, W., Arthurs, E., Govil, et al
2024; 27 (4): 109388
- **Comprehensive overview of the anesthesiology research landscape: A machine Learning Analysis of 737 NIH-funded anesthesiology primary Investigator's publication trends.** *Heliyon*
Ghanem, M., Espinosa, C., Chung, P., Reincke, M., Harrison, N., Phongprecha, T., Shome, S., Saarunya, G., Berson, E., James, T., Xie, F., Shu, C. H., Hazra, et al
2024; 10 (7): e29050
- **Spatially resolved immune exhaustion within the alloreactive microenvironment predicts liver transplant rejection.** *Science advances*
Barbetta, A., Rocque, B., Bangerth, S., Street, K., Weaver, C., Chopra, S., Kim, J., Sher, L., Gaudilliere, B., Akbari, O., Kohli, R., Emamaullee, J.
2024; 10 (15): eadm8841
- **Spatial subsetting enables integrative modeling of oral squamous cell carcinoma multiplex imaging data.** *iScience*
Einhaus, J., Gaudilliere, D. K., Hedou, J., Feyaerts, D., Ozawa, M. G., Sato, M., Ganio, E. A., Tsai, A. S., Stelzer, I. A., Bruckman, K. C., Amar, J. N., Sabayev, M., Bonham, et al
2023; 26 (12): 108486
- **Impact of preoperative uni- or multimodal prehabilitation on postoperative morbidity: meta-analysis.** *BJS open*
Cambriel, A., Choisy, B., Hedou, J., Bonnet, M., Fellous, S., Lefevre, J. H., Voron, T., Gaudilliere, D., Kin, C., Gaudilliere, B., Verdonk, F.
2023; 7 (6)
- **Deep representation learning identifies associations between physical activity and sleep patterns during pregnancy and prematurity.** *NPJ digital medicine*

- Ravindra, N. G., Espinosa, C., Berson, E., Phongpreecha, T., Zhao, P., Becker, M., Chang, A. L., Shome, S., Marić, I., De Francesco, D., Mataraso, S., Saarunya, G., Thuraiappah, et al
2023; 6 (1): 171
- **Longitudinal clinical phenotyping of post COVID condition in Mexican adults recovering from severe COVID-19: a prospective cohort study.** *Frontiers in medicine*
Núñez, I., Gillard, J., Fragoso-Saavedra, S., Feyaerts, D., Islas-Weinstein, L., Gallegos-Guzmán, A. A., Valente-García, U., Meyerowitz, J., Kelly, J. D., Chen, H., Ganio, E., Benkendorff, A., Flores-Gouyonnet, et al
2023; 10: 1236702
 - **Comparative predictive power of serum vs plasma proteomic signatures in feto-maternal medicine.** *AJOG global reports*
Espinosa, C., Ali, S. M., Khan, W., Khanam, R., Pervin, J., Price, J. T., Rahman, S., Hasan, T., Ahmed, S., Raqib, R., Rahman, M., Aktar, S., Nisar, et al
2023; 3 (3): 100244
 - **Spatially resolved immune exhaustion within the alloreactive microenvironment predicts liver transplant rejection.** *Research square*
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