

ALEXANDRE LOUPY, MD, PhD

Professor of Nephrology and Epidemiology

Date of Birth: 21/07/1977, Reunion Island, France
2 Rue de l'Amiral de Joinville – 92200 Neuilly-sur-Seine

PROFILE

Professor Alexandre Loupy is trained in Internal Medicine, with qualifications in Nephrology, Intensive Care, and Transplantation. He holds two PhDs (Biostatistics and Basic Science), reflecting his strong transdisciplinary research expertise. He is a thesis director (8 alumni, 3 ongoing PhD candidates) and is affiliated with two doctoral schools: Public Health (ED 393) and Biology – BioSPC (ED 157).

Over the past decade, his research has focused on precision diagnostics in transplantation, risk prediction and stratification, alloimmune response, organ rejection, integrative epidemiology, biostatistics, and AI-based multidimensional analytics. He is Director of the Paris Transplant Group, coordinating a multidisciplinary research team of approximately 38 members. He also directs PITOR, a French multi-organ transplant network comprising 9 institutions, 200 collaborators, and over 20,000 patients.

He coordinates national and international studies and randomized controlled trials (RCTs), serves as Head of the Scientific Committee of the Banff International Allograft Classification, and is involved in research grants, investigator-led projects, patents, and clinical. He is a Member of the French National Academy of Medicine.

EDUCATION

INSTITUTION	DEGREE	YEAR	FIELD
Descartes University, Paris, France	HDR*	2015	Epidemiology and Biostatistics
Descartes University, Paris, France	PhD#2	2014	Epidemiology and Biostatistics
Genetic Center University of Alberta, Canada	Post doc	2012	Genetics
Pierre et Marie Curie University, Paris, France	PhD#1	2011	Cell biology
Descartes University, Paris, France	M.D	2008	Nephrology

*Clearance to conduct research and lead a research team

POSITIONS

2025: Adjunct Professor, Department of Surgery à NYU Grossman School of Medicine
2023: Director of the Paris Institute for Organ Transplantation and Regeneration ([PITOR](#))
2020: Appointed Adjunct Professor at Cedars Sinai, UCLA, Los Angeles, California USA
2017: Appointed full Professor of Nephrology and Epidemiology, Necker Hospital, Paris
2015: Director of the [Paris Expertise Center for Organ Transplantation](#), French National Medical Research Agency INSERM U970 Team 11 ATIP AVENIR. Paris, France
2013: Associate Professor in Nephrology: Kidney Transplant department, Necker Hospital, Paris, France
2011: Assistant Professor in Nephrology: Kidney Transplant department, Necker Hospital, Paris, France
2010: Assistant Professor in Cardiology, Pompidou Hospital, Paris, France

NOMINATIONS

2025: Councilor of the international society of Transplantation (2025-2029)
2024: Expert Member of the Comité de Surveillance des Investissements d'Avenir (CSIA) France 2030
2024: Member of the Scientific Council of ParisSanté Campus
2024: Consultant for AP-HP on innovation and strategic projection
2022: KDIGO Expert

2015 – Present: Appointed Scientific Director of the International Banff Classification
Expert for the FDA (2015, 2018, 2019)

MOBILITY

- Genomic center ATAGC Kidney Transplant Department; University of Alberta, Prof Phil Halloran (2011 – 2012)
- Comprehensive Transplant Center UCLA - Cedars Sinai, Los Angeles, CA, USA: annual 1-month short stays (2011, 16, 17, 18, 19, 22, 23, 24)

AWARDS

2025: Guy Lazorthes Award

2025: Line Renaud and Loulou Gasté Endowment Fund

2025: French Kidney Foundation Award

2023: French NIH INSERM Innovation Award

2023: French Foundation for Medical Research (FRM) Award

2023: Laureate of the Senior Innovation Chair of the Institut Universitaire de France

2023: Award of the ESOT European Society for Organ Transplantation for most impactful research team

2021: MIT & Stanford University: Challenges and Opportunities in Organ Allocation

2021: Award of the ESOT European Society for Organ Transplantation for most impactful research team

2021: US National Academies of Sciences –committee. (February 5, 2021)

2020: Paul I Terasaki Clinical Sciences Award

2019: Award of the ESOT European Society for Organ Transplantation for most impactful research team,

2018: French National Academy of Medicine Award: prix de Académie de Médecine

2017: Award of the ESOT European Society for Organ Transplantation for most impactful research team

2017: Clinical science investigator award: American Society of Transplantation

2015: French Society of Nephrology Award

2009: Young Investigator Award: European Society for Organ Transplantation

2008: Laureate of the gold medal of Paris Hospitals (APHP)

SCHOLAR SOCIETIES

Member of the French Society of Nephrology (SFT), the European Society for Organ Transplantation (ESOT) and the American Society of Transplantation (AST) and international society of transplantation (TTS)

EDITORIAL ACTIVITIES

2020 – present: Member of the editorial board of *Kidney international*

2016 – present: Associate Editor for *American Journal of Transplantation* (2016 – present)

2014 – 2018: Associate Editor for *Transplantation*

Referee for the following journals:

- NEJM, Nature Medicine, The Lancet, JAMA, Circulation, BMJ
- American Journal of Transplantation, Kidney International, Plos Medicine
- Journal of the American Society of Nephrology

MAIN GRANTS

2026: **INSERM Impact Santé Xenotransplant** (A. Loupy PI, 150 000€). *Study of the immune response in recipients of a kidney transplant from a porcine donor.*

2024: **inIndex SYTOR** (A. Loupy PI, 2.6M€). SYnergy for Transplantation and Organ Regeneration. *This project merges research in transplantation, artificial intelligence, and regenerative medicine to efficiently address organ failures, shortage of donors, and transplant patient care.*

2023: MSD Avenir Xenotransplant Project (A. Loupy PI, 800k€). *This project aims at developing innovating diagnostic tools in xenotransplant. To better characterize the xenoimmune response, optimize the genetically modified pig models, guide the choice of immunosuppressive treatments and accelerate future clinical trials of xenotransplant in humans.*

2023: ERC Consolidator AI-CARE (A. Loupy PI, 2M€). *Integrated AI-Driven Systems For Kidney Transplant Precision Medicine. This project aims at developing integrative AI-based systems for non-invasive monitoring, precision medicine and rejection diagnosis improvement in kidney transplantation.*

2023: H2020 Bioutil-CHF (WP Leader Data analytics, 500k€). *This project funded for 9.6M€ aims at developing a prognostic system to personalize pharmacological approaches in congestive heart failure.*

2022: H2020 Eu4health BRAVEST (WP Leader Data analytics, 78k€). *Building Resilience Against crisis: a systematic and global approach to adVancE organ Safety and supply in Transplantation. This project aims at analyzing the factors that have influenced the organ procurement processes before, during and after the onset of SARS-CoV2 pandemic to propose sustainable innovative actions directed at improving the resilience of the donation and transplant systems and networks to favor a more equitable access to transplantation for all patients with end-stage organ disease.*

2021: Prix Émergence en Recherche 2021 IdEx Université de Paris (A. Loupy PI)
The molecular microscope strategy for precision diagnostics in heart transplant rejection

2021: Prix Émergence ville de Paris (A. Loupy PI)
Development of Contextualization Tools in Kidney Transplantation using Artificial Intelligence: the iBox system and beyond

2020: Prix des Innovateurs Ile De France (A. Loupy PI)
To develop the iBox system by adding a functionality for the standardization of care practices. We thus propose to implement in the iBox application a functionality of clinical and care protocols. This tool for practitioners will be an additional help in medical decision making and will reinforce the clinical utility of the iBox by homogenizing care practices.

2018: iTransplant: intelligence artificielle pour une médecine de précision (A Loupy co PI, 1.8 K€)
This project will build the biggest European cohort of transplant patients with high phenotypic value and will study and put together traditional risk factors and innovative biomarkers of transplant rejection in order to generate a dynamic system of precision diagnostic and stratification of rejection/allograft loss based on machine learning strategies.

2018: H2020 EU-TRAIN: The EUropean TRAnsplantation and INnovation consortium for risk stratification in kidney transplant patients (A Loupy PI). 6,100 K€. *The goal of this project is to develop an integrated risk-stratification and prognosis system (EU-TRACER) to improve graft survival in kidney transplantation. This system will be converted into clinical actionable information for the clinician to monitor individual risk prediction (3, 5, 7, 10-year allograft loss). The project involves 7 European transplant centres in France, Spain, Switzerland, Germany and 2 industrial partners (Oxford Immunotec and Cerner)*

2017: ANR KTD-innov: Kidney Transplant Diagnostics innovation (A Loupy PI). 8,400 K€
Engineering a diagnostic system for precision medicine in kidney transplantation. This project aims at providing a solid algorithm tool to the clinician for rejection diagnosis. The project was funded by the French ANR (National Research Agency) and the consortium involves 7 French referral transplant centres and 2 industrial partners (Cerner and Sebia)

2016: National French Research Agency (INSERM) ATIP Avenir research team : 1 post-doctoral fellow funded and a functioning grant of 330K€ over 5 years (A Loupy PI)

PATENTS

2020: Development and validation of a virtual biopsy system in kidney transplant patients (Request 20 305629.6)
2019: Method of predicting whether a kidney transplant recipient is at risk of having allograft loss (Request 19 305 348.5, PCT/EP2020/058029)
2017: Methods for predicting acute rejection in heart recipients (EP3119904 (A1))
2020: Biopsy contextualization Software (IDDN.FR.001.250020.000.S.P.2020.000.31230)
2018: iBox software (IDDN.FR.001.450013.000.S.P.2018.000.31230)

CLINICAL TRIALS

Ongoing:

[NCT07341516](#): Worldwide Assessment of Deceased Donor Kidney Utilization (2025)
[NCT07091214](#): Molecular Transcriptomics in Diagnosing Pediatric Kidney Transplant Rejection: the PANDA-Kids-ATLAS Study (2025)
[NCT06406179](#): Assessment of the Efficacy of Dd-cfDNA in Routine Patient Care in Kidney Transplant Recipients" (AI-CARE) (2024)
[NCT06342128](#): Molecular Landscape of Microvascular Inflammation in Kidney Allografts (2022)
[NCT05306795](#): Development and Validation of a Comprehensive Classification Automation System for Kidney Allograft Biopsies (2016)

Completed:

[NCT06496269](#): Impact of Microvascular Inflammation on Kidney Allograft Outcome
[NCT05995379](#): Donor Derived Cell-free DNA and Rejection of Kidney Allografts (2021)
[NCT06436027](#): Molecular Diagnosis of Heart Allograft Rejection Using Intra-Graft Targeted Gene Expression Profiling. (Nano-Heart) (2021)
[NCT04774575](#): Quantify the Benefits of Biomarkers in Routine Patient Care in Kidney Transplant Recipients (EUTRAIN IMPACT) (2021)
[NCT07347353](#) : Molecular HistoMx Assessment for Kidney Transplant Rejection and Management (2020)
[NCT04416256](#): COVID-19 Pandemic and Worldwide Organ Procurement (2020)
[NCT04258891](#): Multidimensional System to Dynamically Predict Graft Survival After Kidney Transplantation (2020)
[NCT04226859](#): Trajectories of Glomerular Filtration Rate and Progression to End Stage Renal Disease After Kidney Transplantation (2020)
[NCT04117152](#): Trajectories of Cardiac Allograft Vasculopathy After Heart Transplantation (2019)
[NCT03723668](#): Kidney Transplant Outcome and Organ Acceptance Practice Pattern: A Nationwide Analyses in the US and France (2018)
[NCT03652402](#): Precision Risk Stratification in Kidney Transplant Patients - EU-TRAIN (2018)
[NCT03582436](#): Rejection Diagnosis in Kidney Transplants Patients (KTD-innov) (2018)
[NCT03474003](#): Development and Validation of a Multidimensional Score to Predict Long-term Kidney Transplant Outcomes (2018)
[NCT03466775](#): Anti-Angiotensin II Type 1 Receptor Antibodies and Kidney Transplant Outcomes (2018)
[NCT03438058](#): Complement-activating Anti-human Leucocyte Antigen Donor Specific Antibodies in Solid Organ Transplantation (2018)
[NCT04733131](#): Long-term Outcomes After Conversion to Belatacept (2004)
[NCT04759209](#): Development and Validation of a Virtual Biopsy System in Kidney Transplant (2016)
[NCT05229939](#): Estimating Glomerular Filtration Rate in Kidney Transplant Recipients (2016)
[NCT06531967](#) : Predicting Mortality in Kidney Transplant Recipients (mBox) (2004)

PUBLICATIONS

PhD Thesis in Science:

- PhD #1 (Basic Science): “PTH-independent regulation of blood calcium concentration by the calcium-sensing receptor” (1 related article published as first author in JCI)
- PhD #2 (Epidemiology - biostatistics): “Risk prediction system for prediction allograft failure: population approach” (3 articles published as first author in Lancet, NEJM and BMJ)

Selected Publications and metrics:

49 articles published as first author, 71 published as last author and 26 clinical studies.

General audience journals or journals outside the specialty:

NEJM (n=6; 2 first author, 3 last author), Lancet (n=6; 6 first author), BMJ (n=3; 1 first author, 2 last author), Nature Medicine (n=5; 2 first author, 2 last author), JAMA Intern Med (n=2; 2 last author), Lancet Digital Health (n=1 last author), Lancet Public Health (n=1 last author) JCI (n=2; 1 first author), Nature Communications (n=4; 3 last author), Circulation (n=5; 3 first author, 2 last author).

1. Montgomery RA, Stern JM, Fathi F, Suek N, Kim JI, Khalil K, Vermette B, Tatapudi VS, Mattoo A, Skolnik EY, Jaffe IS, Aljabban I, Eitan T, Bisen S, Weldon EP, Goutaudier V, Morgand E, Mezine F, Giarraputo A, Boudhabhay I, Bruneval P, Sannier A, Breen K, Saad YS, Bay Muntnich C, Williams SH, Zhang W, Kagermazova L, Schmauch E, Goparaju C, Dieter R, Lawson N, Dandro A, Fazio-Kroll AL, Burdorf L, Ayares D, Lorber M, Segev D, Ali N, Goldfarb DS, Costa V, Hilbert T, Mehta SA, Herati RS, Pass HI, Wu M, Boeke JD, Keating B, Mangiola M, Sommer PM, Loupy A, Griesemer A, Sykes M. *Physiology and immunology of a pig-to-human decedent kidney xenotransplant*. Nature. 2026 (IF= 48.5)
2. Sannier A, Benning L, **Loupy A**. *Microvascular inflammation in the kidney transplant, beyond acute antibody-mediated rejection*. Curr Opin Nephrol Hypertens. 2026 (IF= 8.3)
3. Giarraputo A, Coutance G, Patel JK, Fedrigo M, Aubert O, Varnous S, Barison I, Castellani C, Duong Van Huyen JP, Dagobert J, Mezine F, Robin B, Zielinski D, Rouvier P, Leprince P, Achouh P, Gerosa G, Verkarre V, Jouven X, Bruneval P, Angelini A, Kobashigawa J, **Loupy A**. *Heart allograft rejection: molecular diagnosis using intra-graft targeted gene expression profiling*. Eur Heart J. 2026 (IF= 39.3)
4. Demir Z, Raynaud M, Divard G, Louis K, Truchot A, Niemann M, Ponsirenas R, Aubert O, Del Bello A, Hertig A, Anglicheau D, Dale B, Kamar N, Mangiola M, Zeevi A, Lefaucheur C, **Loupy A**. *Impact of HLA evolutionary divergence and donor-recipient molecular mismatches on antibody-mediated rejection of kidney allografts*. Nat Commun. 2025 (IF= 15.7)
5. Giarraputo A, Morgand E, Stern J, Mezine F, Coutance G, Goutaudier V, Sannier A, Certain A, Hauet T, Giraud S, Kerforne T, Allain G, Ayares D, Khalil K, Kim J, Mehta S, Narula N, Reyentovich A, Smith D, Tissier R, Saraon T, Kadosh B, Divita M, Goldberg R, Pass H, Mangiola M, Bruneval P, Griesemer A, Moazami N, Montgomery RA, **Loupy A**. *Characterizing the Immune Response in Pig-to-Human Heart Xenografts Using a Multimodal Diagnostic System*. Circulation. 2025 (IF= 38.6)
6. **Loupy A**, Preka E, Chen X, Wang H, He J, Zhang K. *Reshaping transplantation with AI, emerging technologies and xenotransplantation*. Nat Med. 2025 (IF= 50)
7. **Loupy A**, Sablik M, Khush K, Reese PP. *Advancing patient monitoring, diagnostics, and treatment strategies for transplant precision medicine*. Lancet. 2025 (IF=88.5)
8. Griffith BP, Grazioli A, Singh AK, Tully A, Galindo J, Saharia KK, Shah A, Strauss ER, Odonkor PN, Williams B, Silverman HJ, Burke A, Drachenberg CB, Wells CL, Dickfeld T, Hong SN, Hicks AJ 3rd, Ananthram M, Gupta A, Christenson RH, Tamburro L, Zhang T, Hershfeld A, Lewis B, Feller ED, Kuravi K, Sorrells L, Morgand E, Mezine F, Goutaudier V, Rothblatt M, Lau CL, Taylor B, Perrin S, **Loupy A**, Ayares D, Mohiuddin MM. *Transplantation of a genetically modified porcine heart into a live human*. Nat Med. 2025 (IF=58.7)
9. Juric I, Raynaud M, Skoric L, Al-Awadhi S, Truchot A, Sablik M, Ma X, Lv K, Zhang H, Louis K, Basic-Jukic N, Tissier R, Hauet T, Cozzi E, Oniscu GC, Mangiola M, Tector JA, Riella LV, Locke JE, Samuel D, Meier RPH,

10. Goutaudier V, Aubert O, Racapé M, Truchot A, Sablik M, Raynaud M, Vicaud É, Rousseau O, Elias M, Divard G, Papuchon E, Danger R, Charreau B, Bouton D, Nguyen-Khoa T, Randoux-Lebrun C, Taupin JL, Gourraud PA, Giral M, Le Quintrec M, Morelon E, Couzi L, Legendre C, Lefaucheur C, Kamar N, Brouard S, Anglicheau D, **Loupy A.** KTD-Innov Consortium. *Detection of Kidney Allograft Rejection Using Urinary Chemokines.* J Am Soc Nephrol. 2025 (IF=13.6)
11. Zielinski D, Goutaudier V, Sablik M, Divard G, Aubert O, Piedrafita A, Mezine F, Dagobert J, Certain A, Robin B, Gueguen J, Rabant M, Duong van Huyen JP, Sannier A, Randoux-Lebrun C, Maanaoui M, Lionet A, Gibier JB, Gnemmi V, Le Quintrec M, Chauveau B, Vermorel A, Couzi L, Bestard O, Elias M, Louis K, Rosales IA, Smith RN, Kung VL, Anglicheau D, Legendre C, Del Bello A, Huang E, Adam B, Kamar N, Colvin RB, Mengel M, Lefaucheur C, **Loupy A.** *Molecular diagnosis of kidney allograft rejection based on the Banff Human Organ Transplant gene panel: a multicenter international study.* Am J Transplant. 2025 (IF=8.9)
12. Cortes Garcia E, Giarraputo A, Racapé M, Goutaudier V, Ursule-Dufait C, de la Grange P, Letourneur F, Raynaud M, Couderau C, Mezine F, Dagobert J, Bestard O, Moreso F, Villard J, Halleck F, Giral M, Brouard S, Danger R, Gourraud PA, Rabant M, Couzi L, Le Quintrec M, Kamar N, Morelon E, Vrtovsniak F, Taupin JL, Snanoudj R, Legendre C, Anglicheau D, Budde K, Lefaucheur C, **Loupy A,** Aubert O. *Archetypal Analysis of Kidney Allograft Biopsies Using Next-generation Sequencing Technology.* Transplantation. 2025 (IF=5.3)
13. Truchot A, Raynaud M, Helanterä I, Aubert O, Kamar N, Divard G, Astor B, Legendre C, Hertig A, Buchler M, Crespo M, Akalin E, Pujol GS, Ribeiro de Castro MC, Matas AJ, Ulloa C, Jordan SC, Huang E, Juric I, Basic-Jukic N, Coemans M, Naesens M, Friedewald JJ, Silva HT Jr, Lefaucheur C, Segev DL, Collins GS, **Loupy A.** *Competing and Noncompeting Risk Models for Predicting Kidney Allograft Failure.* J Am Soc Nephrol. 2025 (IF=13.6)
14. Raynaud M, Bakker SJL, Bentall AJ, **Loupy A.** *Glomerular filtration rate equations in kidney transplant recipients: the need for specificity.* Kidney Int. 2025 (IF=14.8)
15. **Loupy A,** Certain A, Tangprasertchai NS, Racapé M, Ursule-Dufait C, Benbadi K, Raynaud M, Vaskova E, Marchis C, Casas S, Hague T, Bestard O, Kervella D, Lefaucheur C, Viard T, Aubert O. *Evaluation of a Decentralized Donor-Derived Cell-Free DNA Assay for Kidney Allograft Rejection Monitoring.* Transpl Int. 2024 (IF=2.7)
16. Sablik M, Sannier A, Raynaud M, Goutaudier V, Divard G, Astor BC, Weng P, Smith J, Garro R, Warady BA, Zahr RS, Twombly K, Dharnidharka VR, Dandamudi RS, Fila M, Huang E, Sellier-Leclerc AL, Tönshoff B, Rabant M, Verine J, Del Bello A, Berney T, Boyer O, Catar RA, Danger R, Giral M, Yoo D, Girardin FR, Alsadi A, Gourraud PA, Morelon E, Le Quintrec M, Try M, Villard J, Zhong W, Bestard O, Budde K, Chauveau B, Couzi L, Brouard S, Hogan J, Legendre C, Anglicheau D, Aubert O, Kamar N, Lefaucheur C, **Loupy A.** *Microvascular Inflammation of Kidney Allografts and Clinical Outcomes.* N Engl J Med. 2024 (IF=96.2)
17. Schmauch E, Piening B, Mohebnasab M, Xia B, Zhu C, Stern J, Zhang W, Dowdell AK, Kim JI, Andrijevic D, Khalil K, Jaffe IS, Loza BL, Gragert L, Camellato BR, Oliveira MF, O'Brien DP, Chen HM, Weldon E, Gao H, Gandla D, Chang A, Bhatt R, Gao S, Lin X, Reddy KP, Kagermazova L, Habara AH, Widawsky S, Liang FX, Sall J, Loupy A, Heguy A, Taylor SEB, Zhu Y, Michael B, Jiang L, Jian R, Chong AS, Fairchild RL, Linna-Kuosmanen S, Kaikkonen MU, Tatapudi V, Lorber M, Ayares D, Mangiola M, Narula N, Moazami N, Pass H, Herati RS, Griesemer A, Kellis M, Snyder MP, Montgomery RA, Boeke JD, Keating BJ. *Integrative multi-omics profiling in human decedents receiving pig heart xenografts.* Nat Med. 2024 (IF=58.7)
18. Truchot A, Raynaud M, Helanterä I, Aubert O, Kamar N, Divard G, Astor B, Legendre C, Hertig A, Buchler M, Crespo M, Akalin E, Pujol GS, Ribeiro de Castro MC, Matas AJ, Ulloa C, Jordan SC, Huang E, Juric I, Basic-Jukic N, Coemans M, Naesens M, Friedewald JJ, Silva HT Jr, Lefaucheur C, Segev DL, Collins GS, **Loupy A.** *Competing and Noncompeting Risk Models for Predicting Kidney Allograft Failure.* J Am Soc Nephrol. 2024 (IF=13.6, 8 citations)
19. Goutaudier V, Danger R, Catar RA, Racapé M, Philippe A, Elias M, Raynaud M, Aubert O, Bouton D, Girardin F, Vicaud É, Yaiche S, Demotes J, Heidecke H, Taupin JL, Randoux-Lebrun C, Zaidan M, Papuchon E, Le Mai H,

- Nguyen TV, Moreso F, Berney T, Villard J, Legendre C, Dragun D, Papalois V, Potena L, Giral M, Gourraud PA, Brouard S, Crespo E, Halleck F, Budde K, Bestard O, **Loupy A**, Lefaucheur C. [Evaluation of non-invasive biomarkers of kidney allograft rejection in a prospective multicenter unselected cohort study \(EU-TRAIN\)](#). EU-TRAIN Consortium. *Kidney Int.* 2024 (IF=14.8, 1 citation)
20. Aubert O, Ursule-Dufait C, Brousse R, Gueguen J, Racapé M, Raynaud M, Van Loon E, Pagliazzi A, Huang E, Jordan SC, Chavin KD, Gupta G, Kumar D, Alhamad T, Anand S, Sanchez-Garcia J, Abdalla BA, Hogan J, Garro R, Dadhania DM, Jain P, Mandelbrot DA, Naesens M, Dandamudi R, Dharnidharka VR, Anglicheau D, Lefaucheur C, **Loupy A**. *Cell-free DNA for the detection of kidney allograft rejection*. *Nat Med.* 2024 (IF=58.7, 8 citations)
21. Goutaudier V, Sablik M, Racapé M, Rousseau O, Audry B, Kamar N, Raynaud M, Aubert O, Charreau B, Papuchon E, Danger R, Letertre L, Couzi L, Morelon E, Le Quintrec M, Taupin JL, Vicaut E, Legendre C, Le Mai H, Potluri V, Nguyen TV, Azoury ME, Pinheiro A, Nouadje G, Sonigo P, Anglicheau D, Tieken I, Vogelaar S, Jacquelinet C, Reese P, Gourraud PA, Brouard S, Lefaucheur C, **Loupy A**. *Design, cohort profile and comparison of the KTD-Innov study: a prospective multidimensional biomarker validation study in kidney allograft rejection*. KTD-Innov Consortium. *Eur J Epidemiol.* 2024 (IF=7.7, 1 citation)
22. Yoo D, Divard G, Raynaud M, Cohen A, Mone TD, Rosenthal JT, Bentall AJ, Stegall MD, Naesens M, Zhang H, Wang C, Gueguen J, Kamar N, Bouqueneau A, Batal I, Coley SM, Gill JS, Oppenheimer F, De Sousa-Amorim E, Kuypers DRJ, Durrbach A, Seron D, Rabant M, Van Huyen JD, Campbell P, Shojai S, Mengel M, Bestard O, Basic-Jukic N, Jurić I, Boor P, Cornell LD, Alexander MP, Toby Coates P, Legendre C, Reese PP, Lefaucheur C, Aubert O, **Loupy A**. *A Machine Learning-Driven Virtual Biopsy System For Kidney Transplant Patients*. *Nat Commun.* 2024 (IF=14.7, 12 citations)
23. **Loupy A**, Goutaudier V, Giarraputo A, Mezine F, Morgand E, Robin B, Khalil K, Mehta S, Keating B, Dandro A, Certain A, Tharaux PL, Narula N, Tissier R, Giraud S, Hauet T, Pass HI, Sannier A, Wu M, Griesemer A, Ayares D, Tatapudi V, Stern J, Lefaucheur C, Bruneval P, Mangiola M, Montgomery RA. *Immune response after pig-to-human kidney xenotransplantation: a multimodal phenotyping study*. *Lancet.* 2023 (IF=59.102, 55 citations)
24. Raynaud M, Al-Awadhi S, Louis K, Zhang H, Su X, Goutaudier V, Wang J, Demir Z, Wei Y, Truchot A, Bouqueneau A, Del Bello A, Bailly É, Lombardi Y, Maanaoui M, Giarraputo A, Naser S, Divard G, Aubert O, Murad MH, Wang C, Liu L, Bestard O, Naesens M, Friedewald JJ, Lefaucheur C, Riella L, Collins G, Ioannidis JPA, **Loupy A**. *Prognostic Biomarkers in Kidney Transplantation: A Systematic Review and Critical Appraisal*. *J Am Soc Nephrol.* 2024 (IF = 13.6, 15 citations)
25. Yoo D, Divard G, Raynaud M, Cohen A, Mone TD, Rosenthal JT, Bentall AJ, Stegall MD, Naesens M, Zhang H, Wang C, Gueguen J, Kamar N, Bouqueneau A, Batal I, Coley SM, Gill JS, Oppenheimer F, De Sousa-Amorim E, Kuypers DRJ, Durrbach A, Seron D, Rabant M, Van Huyen JD, Campbell P, Shojai S, Mengel M, Bestard O, Basic-Jukic N, Jurić I, Boor P, Cornell LD, Alexander MP, Toby Coates P, Legendre C, Reese PP, Lefaucheur C, Aubert O, **Loupy A**. *A Machine Learning-Driven Virtual Biopsy System For Kidney Transplant Patients*. *Nat Commun.* 2024 (IF=16.6, 12 citations)
26. Raynaud M, Al-Awadhi S, Juric I, Divard G, Lombardi Y, Basic-Jukic N, Aubert O, Dubourg L, Masson I, Mariat C, Prié D, Pernin V, Le Quintrec M, Larson TS, Stegall MD, Bikbov B, Ruggenenti P, Mesnard L, Ibrahim HN, Nielsen MB, Matas AJ, Nankivell BJ, Benjamens S, Pol RA, Bakker SJL, Jouven X, Legendre C, Kamar N, Smith BH, Wadei HM, Durrbach A, Vincenti F, Remuzzi G, Lefaucheur C, Bentall AJ, **Loupy A**. *Race-free estimated glomerular filtration rate equation in kidney transplant recipients: development and validation study*. *BMJ.* 2023 (IF=96.2, 22 citations)
27. Yoo D, Goutaudier V, Divard G, Gueguen J, Astor BC, Aubert O, Raynaud M, Demir Z, Hogan J, Weng P, Smith J, Garro R, Warady BA, Zahr RS, Sablik M, Twombly K, Couzi L, Berney T, Boyer O, Duong-Van-Huyen JP, Giral M, Alsadi A, Gourraud PA, Morelon E, Le Quintrec M, Brouard S, Legendre C, Anglicheau D, Villard J, Zhong W, Kamar N, Bestard O, Djamali A, Budde K, Haas M, Lefaucheur C, Rabant M, **Loupy A**. *An automated histological classification system for precision diagnostics of kidney allografts*. *Nature Medicine.* 2023 (IF=87.2, 35 citations)

28. Raynaud M, Aubert O, **Loupy A**: *New Equations for Estimating the GFR without Race*. N Engl J Med. 2022 (IF=96.2, 1 citation)
29. Raynaud M, Aubert O, Divard G, Reese PP, Kamar N, Yoo D, Chin CS, Bailly É, Buchler M, Ladrière M, Le Quintrec M, Delahousse M, Juric I, Basic-Jukic N, Crespo M, Silva HT Jr, Linhares K, Ribeiro de Castro MC, Soler Pujol G, Empana JP, Ulloa C, Akalin E, Böhmig G, Huang E, Stegall MD, Bentall AJ, Montgomery RA, Jordan SC, Oberbauer R, Segev DL, Friedewald JJ, Jouven X, Legendre C, Lefaucheur C, **Loupy A**: *Dynamic prediction of renal survival among deeply phenotyped kidney transplant recipients using artificial intelligence: an observational, international, multicohort study*. Lancet Digit Health. 2021(IF=24.519, 48 citations)
30. Aubert O, Yoo D, Zielinski D, Cozzi E, Cardillo M, Dürr M, Domínguez-Gil B, Coll E, Da Silva MI, Sallinen V, Lemström K, Midtvedt K, Ulloa C, Immer F, Weissenbacher A, Vallant N, Basic-Jukic N, Tanabe K, Papatheodoridis G, Menoudakou G, Torres M, Soratti C, Hansen Krogh D, Lefaucheur C, Ferreira G, Silva HT Jr, Hartell D, Forsythe J, Mumford L, Reese PP, Kerbaul F, Jacquelinet C, Vogelaar S, Papalois V, **Loupy A**: *COVID-19 pandemic and worldwide organ transplantation: a population-based study*. Lancet Public Health. 2021(IF=21.648, 211 citations)
31. Reese PP, Aubert O, Naesens M, Huang E, Potluri V, Kuypers D, Bouquegneau A, Divard G, Raynaud M, Bouatou Y, Vo A, Glotz D, Legendre C, Lefaucheur C, Jordan S, Empana JP, Jouven X, **Loupy A**: *Assessment of the Utility of Kidney Histology as a Basis for Discarding Organs in the United States: A Comparison of International Transplant Practices and Outcomes*. J Am Soc Nephrol. 2021(IF=10.121, 50 citations)
32. Raynaud M, Aubert O, Reese PP, Bouatou Y, Naesens M, Kamar N, Bailly É, Giral M, Ladrière M, Le Quintrec M, Delahousse M, Juric I, Basic-Jukic N, Gupta G, Akalin E, Yoo D, Chin CS, Proust-Lima C, Böhmig G, Oberbauer R, Stegall MD, Bentall AJ, Jordan SC, Huang E, Glotz D, Legendre C, Montgomery RA, Segev DL, Empana JP, Grams ME, Coresh J, Jouven X, Lefaucheur C, **Loupy A**: *Trajectories of glomerular filtration rate and progression to end stage kidney disease after kidney transplantation*. Kidney Int. 2021 (IF=10.612, 57 citations)
33. **Loupy A**, Aubert O, Reese PP, Bastien O, Bayer F, Jacquelinet C: *Organ procurement and transplantation during the COVID-19 pandemic*. Lancet 2020 (IF=59.102, 324 citations)
34. **Loupy A**, Coutance G, Bonnet G, Van Keer J, Raynaud M, Aubert O, Bories MC, Racapé M, Yoo D, Duong Van Huyen JP, Bruneval P, Taupin JL, Lefaucheur C, Varnous S, Leprince P, Guillemain R, Empana JP, Levine R, Naesens M, Patel JK, Jouven X, Kobashigawa J: *Identification and Characterization of Trajectories of Cardiac Allograft Vasculopathy After Heart Transplantation: A Population-Based Study*. Circulation 2020 (IF=23.054, 69 citations)
35. Aubert O, Reese PP, Audry B, Legendre C, Empana JP, Jouven X, Jacquelinet C, Lefaucheur C, **Loupy A**: *Disparities in Acceptance of Deceased Donor Kidneys Between the United States and France and Estimated Effects of Increased US Acceptance*. JAMA internal medicine 2019 (IF=20.768, 159 citations)
36. **Loupy A**, Aubert O, Orandi BJ, Naesens M, Bouatou Y, Raynaud M, Divard G, Jackson AM, Viglietti D, Giral M, Kamar N, Thauinat O, Morelon E, Delahousse M, Kuypers D, Hertig A, Rondeau E, Bailly E, Eskandary F, Böhmig B, Gupta G, Glotz D, Legendre C, Montgomery RA, Stegall MD, Empana JP, Jouven X, Segev DL, Lefaucheur C: *Prediction system for risk of allograft loss in patients receiving kidney transplants: international derivation and validation study*. BMJ 2019 (IF=30.223, 276 citations)
37. Bouquegneau A, Loheac C, Aubert O, Bouatou Y, Viglietti D, Empana JP, Ulloa C, Murad MH, Legendre C, Glotz D, Jackson AM, Zeevi A, Schaub S, Taupin JL, Reed EF, Friedewald JJ, Tyan DB, Süsal C, Shapiro R, Woodle ES, Hidalgo LG, O'Leary J, Montgomery RA, Kobashigawa J, Jouven X, Jabre P, Lefaucheur C, **Loupy A**: *Complement-activating donor-specific anti-HLA antibodies and solid organ transplant survival: A systematic review and meta-analysis*. PLOS Med 2018 (IF=11.048, 112 citations)
38. **Loupy A**, Lefaucheur C: *Antibody-Mediated Rejection of Solid-Organ Allografts*. N Engl J Med 2018 (IF=96.2, 436 citations)

39. **Loupy A**, Duong Van Huyen JP, Hidalgo L, Reeve J, Racapé M, Aubert O, Venner JM, Falmuski K, Bories MC, Beuscart T, Guillemain R, François A, Pattier S, Toquet C, Gay A, Rouvier P, Varnous S, Leprince P, Empana JP, Lefaucheur C, Bruneval P, Jouven X, Halloran PF: *Gene Expression Profiling for the Identification and Classification of Antibody-Mediated Heart Rejection*. Circulation 2017 (IF=23.054, 167 citations)
40. Aubert O, Kamar N, Vernerey D, Viglietti D, Martinez F, Duong-Van-Huyen JP, Eladari D, Empana JP, Rabant M, Verine J, Rostaing L, Congy N, Guilbeau-Frugier C, Mourad G, Garrigue V, Morelon E, Giral M, Kessler M, Ladrière M, Delahousse M, Glotz D, Legendre C, Jouven X, Lefaucheur C, **Loupy A**: *Long term outcomes of transplantation using kidneys from expanded criteria donors: prospective, population based cohort study*. BMJ 2015 (IF=30.223, 226 citations)
41. **Loupy A**, Vernerey D, Viglietti D, Aubert O, Duong Van Huyen JP, Empana JP, Bruneval P, Glotz D, Legendre C, Jouven X, Lefaucheur C: *Determinants and Outcomes of Accelerated Arteriosclerosis: Major Impact of Circulating Antibodies*. Circ Res 2015 (IF=15.862, 52 citations)
42. **Loupy A***, Lefaucheur C*, Vernerey D, Duong-Van-Huyen JP, Suberbielle C, Anglicheau D, Vérine J, Beuscart T, Nochy D, Bruneval P, Charron D, Delahousse M, Empana JP, Hill GS, Glotz D, Legendre C, Jouven X: *Antibody-mediated vascular rejection of kidney allografts: a population-based study*. Lancet 2013 (IF=59.102, 393 citations)

RESEARCH FEATURED IN MAINSTREAM MEDIA

CNN / CNN News, FOX News online, MEDSCAPE (Major medical trade that we pitched), MEDPAGE TODAY, HealthDay, New York Post, Daily Mail, BioSpace, WebMD, FOX News, KSBY-TV in California, PR NEWSWIRE (Press release), UPENN news release, Healio, Philadelphia Inquirer, AFP, Renal and Urology News, CNN online, Cordis (European Commission), PR Newswire, Healio, Egora, Practice Update