

Alexandre Loupy



En Bref

Le Dr Alexandre Loupy est néphrologue au Département de néphrologie et de transplantation rénale de l'hôpital Necker à Paris, France. Il a rejoint le Paris Transplant Group en 2008.

Biographie

Le Dr Alexandre Loupy a défendu son doctorat en médecine en 2008. Il a obtenu le Resident Award des Hôpitaux de Paris. Il a soutenu son doctorat en sciences fondamentales en 2011 et a obtenu un doctorat en biostatistique en 2014.

Ses travaux de recherche portent sur le rejet des allogreffes rénales par les anticorps et la relation avec les lésions histologiques des greffons, le vieillissement vasculaire à médiation immunitaire et les résultats des allogreffes. Le Dr Loupy a récemment mis au point une approche populationnelle de la transplantation à l'aide de nouveaux outils méthodologiques qui sont utilisés pour la stratification des risques. Cette nouvelle approche populationnelle de cohortes extrêmement bien phénotypées a été étendue aux cœurs, aux greffes pulmonaires et aux greffes d'organes.

Le Dr Loupy est membre de la Société française de transplantation et du Comité scientifique de la Conférence de Banff. En 2018, il est lauréat du Prix de l'Académie nationale de médecine et Vanity Fair France le place dans la liste des 50 Français les plus influents dans le monde.

Titres et Diplômes Universitaires

- 2016 Habilitation à Diriger des Recherches, Université Paris Descartes
- 2013 Doctorat en sciences #2 : Épidémiologie et Santé Publique Paris Descartes
- 2011 Post doctorat : ATAGC Transplant Applied Genomics Center Edmonton, University of Alberta, Canada
Doctorat en sciences #2: Biologie cellulaire : Université Paris Descartes
- 2008 Diplôme d'études spécialisées de Néphrologie
Thèse de Doctorat en Médecine : mention très honorable, médaille d'argent, Université Paris V, France
- 2007 Mastère 2, Santé Univ Paris 7, Biologie Cellulaire, Physiologie et Pathologie Parcours « Epithéliums, modèles cellulaires et spécialisation » Pr Clerici.
Hesperis European Course: Advanced Training in Organ Transplantation, European Society for Organ Transplantation
École d'été en santé publique: Méthdologie en statistique et en épidémiologie
- 2005 Mastère M1: Epidémiologie et Recherche Clinique, Pr Bréart
Mastère M1: Physiologie et Biologie des Systèmes Intégrés, Pr Paillard
- 2002 Internat des Hôpitaux de Paris, spécialités médicales

Titres Hospitaliers

2014 – présent : MCUPH (Praticien Hospitalier Service de transplantation rénale Pr Ch. Legendre et valence universitaire en Épidémiologie Université Paris Descartes)

2013 – 2014 : Chef de Clinique Assistant en Épidémiologie. INSERM U970 – Hôpital Européen Georges Pompidou.

2011 – 2013 : Chef de clinique assistant service de transplantation rénale adulte du Pr Ch. Legendre, Hôpital Necker & Université Paris Descartes.

2002 – 2008 : Interne des Hôpitaux, Assistance Publique – Hôpitaux de Paris, Paris

Mobilite, Sociétés Savantes, Activités Éditoriales

Mobilité

University of Alberta, Applied Genomic center ATAGC Kidney Transplant Department; Pr Phil Halloran (Novembre 2010 – Novembre 2011).

Sociétés savantes et prix

Strong Together PRO Award : European Society for Organ Transplantation (2017)

Expert auprès de la FDA (Washington, Novembre 2015) section transplantation rénale »

Directeur élu (elected chair) du comité scientifique de la classification internationale de Banff 2015 (Vancouver). Réélection pour la session de 2017 (Barcelone)

Prix de la société de Francophone de Néphrologie (Novembre 2015)

Membre Société Francophone (SFT), Européenne (ESOT) et Américaine (AST) de Transplantation

Young Investigator Award: European Society for Organ Transplantation (2009)

Lauréat de la médaille d'or de l'internat des Hôpitaux de Paris (2008)

Activités éditoriales

Associate Editor pour la revue Transplantation (nommé en Janvier 2014)

Relecteur (referee) pour les revues suivantes : New England Journal of Medicine, Nature Medicine, Lancet, JAMA, American Journal of Transplantation, Journal of the American Society of Nephrology

PRINCIPALES COLLABORATIONS INTERNATIONALES

P Halloran, Edmonton, Canada

A Zeevi, Pittsburgh, USA

S Jordan Los Angeles, USA

M Stegal, Rochester USA

D Segev, Baltimore, USA

FINANCEMENTS DES RECHERCHES

RHU (8.8 million €) : KTD-Innov : en cours

H2020 (6.6 million €) : EU-TRAIN : en cours

C1q_compredict (ThermoFischer, 2.2 million €): Complement binding antibodies in kidney transplant: terminé 01/01/2014

Subclass_Ig allograft injury (One Lambda 400 k€): Predictive value of igG subclass in allograft rejection: terminé 01/07/2016

National allograft allocation agency (70 k€): Microarray in transplant rejection diagnostics: terminé 01/01/2017

INTERCOM (national Canadian grant, 700 k€). Diagnostic applications of microarray in Transplantation co
PI: en cours

MIRRACLE (institutional APHP grant, 500 k€): MicroRNA non invasive diagnosis of rejection. WP Leader
end 31/12/2017

Activités d'enseignement

Enseignement de Santé publique et économie de la santé à Paris Descartes.

Depuis septembre 2014 je coordonne l'UE de santé publique qui est destinée aux étudiants en soins infirmiers. Mes missions au sein de cette UE comprennent la mise en place ainsi que la structuration des cours magistraux et des travaux dirigés. Je suis également en charge l'établissement et la correction des sujets d'examens et des enseignements. L'UE santé publique et économie de la santé se déroule sur 2 semestres (S2 et S3), elle comporte 25 heures de cours magistraux et 40 heures de travaux dirigés.

Enseignements Dirigés, 2ème Cycle des Etudes Médicales, Université Paris Descartes.

Enseignement de l'épidémiologie Master M2 de Santé Publique Spécialité Recherche en santé publique de l'ED 420.

Cet enseignement comporte 4 heures de cours magistraux, et 4 heures de TD d'analyse d'article, préparation et correction de sujets d'examens. J'effectue depuis maintenant 5 années cet enseignement sur la thématique des « Analyses de survie en transplantation d'organe ». Je participe également aux séances d'évaluation des étudiants qui consistent en l'analyse critique d'article.

Enseignement de la méthodologie et analyse critique d'article aux internes du service de transplantation rénale adulte, hôpital Necker (2011-présent).

J'ai mis en place cet enseignement dans le service de transplantation depuis ma prise de post de chef de clinique assistant en novembre 2011. Cet enseignement est basé sur l'interprétation et l'analyse d'articles scientifiques. Pour cela, je me sers des articles que j'évalue régulièrement dans le cadre de mes fonctions éditoriales pour la revue American Journal of Transplantation. Les internes participent au processus d'analyse critique de l'article, puis au suivi des correspondances entre éditeurs jusqu'à la décision finale de l'article. Cette méthode apparaît comme très efficace pour l'apprentissage des règles de méthodologie.

Conférencier d'internat : La conférence Hippocrate 2003 – 2005

Rédaction d'ouvrages à visée pédagogique

Participation à la rédaction d'un ouvrage intitulé « La Transplantation Rénale » sous la direction du Professeur Christophe Legendre.

Publications en pédagogie (revues)

Auteur de 3 articles de synthèse, dans des revues de langue anglaise (Nature Reviews, Current Opinion in

Organ Transplantation (Publication en 2011 et 2012 cf chapitre publications) et Official book of the American Society of Transplantation chapitre : « Management of Antibody Mediated Rejection ».

Animation scientifique et encadrement du module « Épidémiologie intégrative de la transplantation »

PARCC HEGP U 970: 2 Demi journées par semaine depuis 2010 et 3 demi journées par semaine depuis novembre 2013.

PUBLICATIONS

Mémoires de thèse de science

PhD #1 (Basic science): “PTH-independent regulation of blood calcium concentration by the calcium-sensing receptor” (1 article original publié dans le JCI)

PhD #2 (Epidemiology – biostatistics): “Risk prediction in kidney transplantation: population approach and integrative epidemiology” (3 articles originaux publiés dans Lancet, NEJM et JASN)

Articles

83. Lefaucheur C, Viglietti D, Loupy A. [Recognition of i-IF/TA as a component of the T cell-mediated rejection spectrum: Unselected population approach vs random case selection.](#) Am J Transplant. 2018 Jan 17

82. Querard AH, Le Borgne F, Dion A, Giral M, Mourad G, Garrigue V, Rostaing L, Kamar N, Loupy A, Legendre C, Morelon E, Buron F, Foucher Y, Dantan E. [Propensity score-based comparison of the graft failure risk between kidney transplant recipients of standard and expanded criteria donor grafts: Toward increasing the pool of marginal donors.](#) Am J Transplant. 2018 Jan 9

81. Montgomery RA, Loupy A, Segev DL. [Antibody-mediated rejection: New approaches in prevention and management.](#) Am J Transplant. 2018 Jan;18 Suppl 3:3-17

80. Viglietti D, Loupy A, Aubert O, Bestard O, Van Huyen JD, Taupin JL, Glotz D, Legendre C, Jouven X, Delahousse M, Kamar N, Lefaucheur C. [Dynamic Prognostic Score to Predict Kidney Allograft Survival in Patients with Antibody-Mediated Rejection.](#) J Am Soc Nephrol. 2018 Feb;29(2):606-619

79. Haas M, Loupy A, Lefaucheur C, Roufousse C, Glotz D, Seron D, Nankivell BJ, Halloran PF, Colvin RB, Akalin E, Alachkar N, Bagnasco S, Bouatou Y, Becker JU, Cornell LD, van Huyen JPD, Gibson IW, Kraus ES, Mannon RB, Naesens M, Nickleit V, Nickerson P, Segev DL, Singh HK, Stegall M, Randhawa P, Racusen L, Solez K, Mengel M. [The Banff 2017 Kidney Meeting Report: Revised diagnostic criteria for chronic active T cell-mediated rejection, antibody-mediated rejection, and prospects for integrative endpoints for next-generation clinical trials.](#) Am J Transplant. 2018 Feb;18(2):293-307

78. Chen CC, Pouliquen E, Broisat A, Andreato F, Racapé M, Bruneval P, Kessler L, Ahmadi M, Bacot S, Saison-Delaplace C, Marcaud M, Van Huyen JD, Loupy A, Villard J, Demuylder-Mischler S, Berney T, Morelon E, Tsai MK, Kolopp-Sarda MN, Koenig A, Mathias V, Ducreux S, Ghezzi C, Dubois V, Nicoletti A, Defrance T, Thaunat O. [Endothelial chimerism and vascular sequestration protect pancreatic islet grafts from antibody-mediated rejection](#). J Clin Invest. 2018 Jan 2;128(1):219-232
77. Lefaucheur C, Gosset C, Rabant M, Viglietti D, Verine J, Aubert O, Louis K, Glotz D, Legendre C, Duong Van Huyen JP, Loupy A. [T cell-mediated rejection is a major determinant of inflammation in scarred areas in kidney allografts](#). Am J Transplant. 2018 Feb;18(2):377-390
76. Lefaucheur C, Viglietti D, Hidalgo LG, Ratner LE, Bagnasco SM, Batal I, Aubert O, Orandi BJ, Oppenheimer F, Bestard O, Rigotti P, Reisaeter AV, Kamar N, Lebranchu Y, Duong Van Huyen JP, Bruneval P, Glotz D, Legendre C, Empana JP, Jouven X, Segev DL, Montgomery RA, Zeevi A, Halloran PF, Loupy A. [Complement-Activating Anti-HLA Antibodies in Kidney Transplantation: Allograft Gene Expression Profiling and Response to Treatment](#). J Am Soc Nephrol. 2018 Feb;29(2):620-635
75. Loupy A, Hidalgo L, Duong JP, Bruneval P, Jouven X, Halloran PF. [Response by Loupy et al to Letters Regarding Article, "Gene Expression Profiling for the Identification and Classification of Antibody-Mediated Heart Rejection"](#). Circulation. 2017 Aug 15;136(7):698-699
74. Halloran PF, Potena L, Van Huyen JD, Bruneval P, Leone O, Kim DH, Jouven X, Reeve J, Loupy A. [Building a tissue-based molecular diagnostic system in heart transplant rejection: The heart Molecular Microscope Diagnostic \(MMDx\) System](#). J Heart Lung Transplant. 2017 Nov;36(11):1192-1200
73. Reeve J, Böhmig GA, Eskandary F, Einecke G, Lefaucheur C, Loupy A, Halloran PF; MMDx-Kidney study group. [Assessing rejection-related disease in kidney transplant biopsies based on archetypal analysis of molecular phenotypes](#). JCI Insight. 2017 Jun 15;2(12)
72. Gosset C, Viglietti D, Rabant M, Verine J, Aubert O, Glotz D, Legendre C, Taupin JL, Duong Van-Huyen JP, Loupy A, Lefaucheur C. [Circulating donor-specific anti-HLA antibodies are a major factor in premature and accelerated allograft fibrosis](#). Kidney Int. 2017 Sep;92(3):729-742
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70. Aubert O, Loupy A, Hidalgo L, Duong van Huyen JP, Higgins S, Viglietti D, Jouven X, Glotz D, Legendre C, Lefaucheur C, Halloran PF. [Antibody-Mediated Rejection Due to Preexisting versus De Novo Donor-Specific Antibodies in Kidney Allograft Recipients](#). J Am Soc Nephrol. 2017 Jun;28(6):1912-1923
69. Choi J, Aubert O, Vo A, Loupy A, Haas M, Puliyananda D, Kim I, Louie S, Kang A, Peng A, Kahwaji J, Reinsmoen N, Toyoda M, Jordan SC. [Assessment of Tocilizumab \(Anti-Interleukin-6 Receptor Monoclonal\) as a Potential Treatment for Chronic Antibody-Mediated Rejection and Transplant Glomerulopathy in HLA-Sensitized Renal Allograft Recipients](#). Am J Transplant. 2017 Sep;17(9):2381-2389

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67. Lefaucheur C, Viglietti D, Mangiola M, Loupy A, Zeevi A. [From Humoral Theory to Performant Risk Stratification in Kidney Transplantation](#). *J Immunol Res*. 2017;2017:5201098
66. Wadström J, Ericzon BG, Halloran PF, Bechstein WO, Opelz G, Serón D, Grinyó J, Loupy A, Kuypers D, Mariat C, Clancy M, Jardine AG, Guirado L, Fellström B, O'Grady J, Pirenne J, O'Leary JG, Aluvihare V, Trunečka P, Baccarani U, Neuberger J, Soto-Gutierrez A, Geissler EK, Metzger M, Gray M. [Advancing Transplantation: New Questions, New Possibilities in Kidney and Liver Transplantation](#). *Transplantation*. 2017 Feb;101 Suppl 2S:S1-S41
65. Amrouche L, Aubert O, Suberbielle C, Rabant M, Van Huyen JD, Martinez F, Sberro-Soussan R, Scemla A, Tinel C, Snanoudj R, Zuber J, Cavalcanti R, Timsit MO, Lamhaut L, Anglicheau D, Loupy A, Legendre C. [Long-term Outcomes of Kidney Transplantation in Patients With High Levels of Preformed DSA: The Necker High-Risk Transplant Program](#). *Transplantation*. 2017 Oct;101(10):2440-2448
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58. Viglietti D, Gosset C, Loupy A, Deville L, Verine J, Zeevi A, Glotz D, Lefaucheur C. [C1 Inhibitor in Acute Antibody-Mediated Rejection Nonresponsive to Conventional Therapy in Kidney Transplant Recipients: A Pilot Study.](#) Am J Transplant. 2016 May;16(5):1596-603
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55. Lefaucheur C, Viglietti D, Bentelejewski C, Duong van Huyen JP, Vernerey D, Aubert O, Verine J, Jouven X, Legendre C, Glotz D, Loupy A, Zeevi A. [IgG Donor-Specific Anti-Human HLA Antibody Subclasses and Kidney Allograft Antibody-Mediated Injury.](#) J Am Soc Nephrol. 2016 Jan;27(1):293-304
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52. Loupy A, Legendre C. [From Mean Fluorescence Intensity to C1q-Binding: The Saga of Anti-HLA Donor-specific Antibodies.](#) Transplantation. 2015 Jun;99(6):1107-8
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[Leukocyte Antigen Antibodies in Nonsensitized Kidney Transplant Recipients After T Cell-Mediated Rejection.](#) Transplantation. 2015 May;99(5):965-72

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