

Curriculum vitae

Pierre-Louis THARAUX

DR1 Inserm, Directeur de l'équipe 8 du PARCC (Paris Cardiovascular Centre, UMR970)

<http://parcc.inserm.fr/research-teams/team/tharaux-camerer/>

Diplômes

1984-1990- Etudes médicales à la Faculté Necker-Enfants Malades- Université Paris Descartes.

1990- Interne des Hôpitaux de la région Ile-de-France

1998- DES de Néphrologie et Docteur en Médecine de l'Université Paris V René Descartes.

1999- Diplôme Inter-Universitaire de physiopathologie cardiovasculaire des troubles du sommeil.

2000- Docteur de L'Université Pierre et Marie Curie-Paris VI - Physiologie-Physiopathologie Rénale (Dir. Pr J-C Dussaule).

Prix, distinctions

- Année-Recherche de l'Internat – 1995

- Médaille de l'Internat, AP-HP, 1997

- Poste d'accueil de l'INSERM – 1998

- Prix Louis Auquier, Fonds d'Etudes et de Recherche du Corps Médical (FERCM) des hôpitaux de Paris- 1999

- European Society for Microcirculation Young Investigator award- 1999

- Fondation Simone et Cino del Duca fellowship for research – 2000-2001

- Elli-Lilly International Research Fellow – 2000

- Gordon Research Conference on Angiotensin, best communication award 2007.

- European Research Council (ERC) Consolidator Grantee – 2012

- Prix Eloi Collery de l'Académie Nationale de Médecine – 2013

- Prix de la Fondation du Rein, 2019

- Prix Alnylam avec la Fondation Maladies Rares, 2021

Formation scientifique et parcours professionnel

- 1997-2000 (thèse) : UMR702 Inserm, Hôpital Tenon, Paris, Raymond Ardaillou, Pierre Ronco : 1995 (M2R),

- 2000-2002: Research Associate, Duke University Medical Center, Durham, NC, laboratoire du Pr Thomas M Coffman et University of North Carolina, Chapel Hill, NC. laboratoire du Dr Beverly Koller,

- 2002-2006 : Chargé de Recherche Inserm (CR1), UMR702 Inserm, Hôpital Tenon, Paris

- 2006-2009 : CR1, UMR689 Inserm, Hôpital Lariboisière, Paris

- 2009 –présent : Directeur de Recherche, Centre de Recherche HEGP/Paris Cardiovascular Centre, PARCC

- 2013-2018 Directeur d'équipe « Kidney and vascular signalling: from development to diseases », Investigateur de l'European Research Council (ERC), Centre de Recherche HEGP/Paris Cardiovascular Centre, PARCC

- Chaire de Professeur invité, Freiburg Institute for Advanced Studies (FRIAS), University of Freiburg, Allemagne, 2015-2016 (<https://www.frias.uni-freiburg.de/en/people/fellows/current-fellows/tharaux>)

- 2018–présent, Directeur d'équipe « Kidney and vascular signalling: from development to diseases », Centre de Recherche HEGP/Paris Cardiovascular Centre, PARCC

- 2015-2016. Professeur invité, Freiburg Institute for Advanced Studies (FRIAS), University of Freiburg, Allemagne.

- 2020-présent, Visiting Professor, the University Medical Center Hamburg-Eppendorf (UKE), Hambourg, Allemagne.

Formations complémentaires

1985-1987: DEUG de Philosophie, Université Paris I la Sorbonne.

1990-1998: Internat de Médecine : médecine interne, diabétologie, néphrologie, hépatologie, réanimation.

1994-1995: Service National : médecin réanimateur à la Présidence de la République

Activités d'enseignement supérieur

- 1991-1999 : conférencier d'Internat de Médecine pendant huit ans.

- 2003-présent : j'ai encadré au laboratoire 11 étudiants de Mastère 2, 1 thèses de médecine, 7 thèses de sciences et 7 Post-doctorants. J'enseigne dans 3 modules de Mastère 2 et une UE de Mastère 1.

Appartenance à des Conseils scientifiques, instances statutaires d'organismes de recherche, sociétés savantes, conseils d'administration,

- Membre du Conseil Scientifique de l'UFR Médicale Saint-Antoine (2002-2005)
- Membre du Conseil Scientifique de l'INSERM (2003-2007)
- Jury d'admission du programme Avenir de l'INSERM : 2007, 2009, 2010
- Jury de la Médaille de l'Internat (2006, 2009)
- Membre des comités physiopathologie et RPIB de l'Agence Nationale de la Recherche (ANR).
- Membre de plusieurs comités d'évaluation de l'AERES et de l'HCERES (2009-présent).
- Réseau de Recherche Clinique sur la drépanocytose (2003- présent)
- Expert pour sélectionner les travaux retenus « abstract grader » pour le Congrès Annuel de l'ASN (American Society of Nephrology)-2002,2010, 2013, 2016.
- Expert pour sélectionner les travaux retenus « abstract grader » pour le Congrès Annuel de l'AHA (American Heart Association) : 2003-2006.
- Membre du Comité de Programmation Scientifique du Congrès Mondial de Néphrologie (WCN 2007)
- Expert pour sélectionner les travaux retenus « abstract grader » pour le Congrès Mondial de Néphrologie (WCN 2009, WCN 2010)
- Membre du Comité de Programmation Scientifique du Congrès annuel de l'ERA-EDTA 2011 (European Renal Association, European Dialysis and Transplantation Association).
- Organisateur du Symposia « Pathophysiology of the Microcirculation: The eye, kidney and beyond » for the Federation of European Physiological Societies (FEPS) Meeting, Paris, Juillet 2016
- Membre du Scientific Committee and abstract grader for the World Congress of Nephrology of the International Society of Nephrology (ISN), 2015.
- Membre du Comité de Programmation Scientifique de la 12^{ème}, 13^{ème}, 15^{ème} et 17^{ème} conférence internationale sur l'endothéline (International Conferences on Endothelin, ET-12, <http://www.endothelin-conferences.org/Cambridge2011/> ;ET-13 : <http://www.endothelin-conferences.org/Conferences/Tokyo2013/>; ET-15, Prague, Czech Republic, 2017 ; ET-17, Kobe, Japan, 2029.
- Membre du Conseil d'Administration et Scientifique du Groupe de Réflexion sur la Recherche Cardiovasculaire de la Société Française de Cardiologie, 2011 - présent
- Membre du Conseil Scientifique de la Société Française d'Hypertension Artérielle (SFHTA), 2017- présent.
- Membre du Conseil Scientifique de la Fédération Française de Cardiologie (FFC), 2017-présent
- Membre élu et vice-président de la Commission Scientifique Spécialisée n°3 de l'INSERM (Physiologie et physiopathologie des grands systèmes), 2016-2021.

- Member of the Editorial Board: Kidney International (2020-present)
- Advisory Board member: Nature Review Nephrology (2020-present)

« Reviewer » pour Nature Medicine; eLife; the Journal Clinical Investigation; the Journal of the American Society of Nephrology (JASN); Kidney International; PNAS ; Circulation ; Hypertension ; Arteriosclerosis, Thrombosis and Vascular Biology (ATVB); the American Journal of Physiology, the JACC; Autophagy; Cell Metabolism; Blood; ...
Evalueur pour l'ERC (European Research Council), Kidney Research UK, les Actions Marie Sklodowska-Curie, l'ANR.

Intérêts principaux en biomédecine

En recourant à des approches transversales de la cellule aux modèles animaux et aux patients, nous nous intéressons particulièrement aux maladies rénales rares et communes associées aux maladies vasculaires inflammatoires et métaboliques (glomérulonéphrites à croissants, glomérulosclérose diabétique, néphropathie hypertensive, néphropathie de la drépanocytose) et aux podocytopathies (physiopathologie des glomérulonéphrites à croissant et des hyalinoses segmentaires et focales). Nous travaillons également à élucider les mécanismes des crises douloureuses et des lésions micro-vasculaires chroniques de la drépanocytose. A chaque fois, nous tentons de déduire des approches thérapeutiques nouvelles à partir des mécanismes découverts. Je suis inventeur de 10 brevets.

J'ai donné 28 communications internationales invitées ces 5 dernières années et signé plus de 110 articles originaux dans des journaux à comité de lecture incluant Nature Medicine (1), Nature Communication (2), Nature Nanotechnology (1), Science (1), Science Immunology (1), Journal of Clinical Investigation (4), Journal of the American Society of Nephrology (4/12), Kidney International (5/6), Autophagy (2), Circulation (2), European Heart Journal (1), J Am Coll Cardiol. (1), Circulation Research (3), Hypertension (3), Faseb J (4), JAMA Internal Medicine (2), The Lancet Respiratory Medicine (1), Nature Reviews Nephrology (1). Ces travaux ont été cités plus de 7000 fois (<https://scholar.google.fr/citations?user=i23GHJAAAAAJ&hl=fr>)

Publications originales sélectionnées (au titre souligné, les 10 principales publications)

<https://scholar.google.fr/citations?user=i23GHJAAAAAJ&hl=fr>

Effectiveness of Tocilizumab in Patients Hospitalized With COVID-19: A Follow-up of the CORIMUNO-TOCI-1 Randomized Clinical Trial.

Mariette X, Hermine O, Tharaux PL, Resche-Rigon M, Steg PG, Porcher R, Ravaud P.

JAMA Intern Med. 2021 May 24:e212209. doi: 10.1001/jamainternmed.2021.2209

Effect of Tocilizumab vs Usual Care in Adults Hospitalized With COVID-19 and Moderate or Severe Pneumonia: A Randomized Clinical Trial.

Hermine O, Mariette X, Tharaux PL, Resche-Rigon M, Porcher R, Ravaud P; CORIMUNO-19 Collaborative Group.

JAMA Intern Med. 2021 Jan 1;181(1):32-40.

Calpastatin prevents Angiotensin II-mediated podocyte injury through maintenance of autophagy.

Bensaada I, Robin B, Perez J, Salemkour Y, Chipont A, Camus M, Lemoine M, Guyonnet L, Lazareth H, Letavernier E, Hénique C, Tharaux PL*, Lenoir O*. (* co-last authors)

Kidney Int. 2021 Jul;100(1):90-106.

Effect of anakinra versus usual care in adults in hospital with COVID-19 and mild-to-moderate pneumonia (CORIMUNO-ANA-1): a randomised controlled trial.

CORIMUNO-19 Collaborative group.

Lancet Respir Med. 2021;9(3):295-304.

The proteome of neutrophils in sickle cell disease reveals an unexpected activation of interferon alpha signaling pathway.

Hermant P, Azouzi S, Gautier EF, Guillonnet F, Bondet V, Duffy D, Dechavanne S, Tharaux PL, Mayeux P, Le Van Kim C, Koehl B.

Haematologica. 2020;105(12):2851-2854

3D-printed protected face shields for health care workers in Covid-19 pandemic.

Lemarteleur V, Fouquet V, Le Goff S, Tapie L, Morenton P, Benoit A, Vennat E, Zamansky B, Guilbert T, Depil-Duval A, Gaultier AL, Tavitian B, Plaisance P, Tharaux PL, Ceccaldi PF, Attal JP, Dursun E.

Am J Infect Control. 2020 Aug 11:S0196-6553(20)30772-0

Deletion of the myeloid endothelin-B receptor confers long-term protection from angiotensin II-mediated kidney, eye and vessel injury.

Guyonnet L, Czopek A, Farrah TE, Baudrie V, Bonnin P, Chipont A, Lenoir O, Sennlaub F, Roubex C, Webb DJ, Kluth DC, Bailey MA, Tharaux PL*, Dhaun N*. (* co-last authors)

Kidney Int. 2020;98(5):1193-1209.

Podocytes maintain high basal levels of autophagy independent of mtor signaling.

Bork T, Liang W, Yamahara K, Lee P, Tian Z, Liu S, Schell C, Thedieck K, Hartleben B, Patel K, Tharaux PL, Lenoir O, Huber TB.

Autophagy. 2020;16(11):1932-1948.

The tetraspanin CD9 controls migration and proliferation of parietal epithelial cells and glomerular disease progression.

Lazareth H*, Hénique C*, Lenoir O*, Puellas VG*, Flamant M, Bollée G, Fligny C, Camus M, Guyonnet L, Millien C, Gaillard F, Chipont A, Robin B, Fabrega S, Dhaun N, Camerer E, Kretz O, Grahammer F, Braun F, Huber TB, Nochy D, Mandet C, Bruneval P, Mesnard L, Thervet E, Karras A*, Le Naour F*, Rubinstein E*, Boucheix C*, Alexandrou A*, Moeller MJ*, Bouzigues C and Tharaux PL. (* contributed equally to the work).

Nat Commun. 2019, Jul 24;10(1):3303

A novel role for myeloid endothelin-B receptors in hypertension.

Czopek A*, Moorhouse R*, Guyonnet L, Farrah T, Lenoir O, Owen E, van Bragt J, Costello H, Menolascina F, Baudrie V, Webb DJ, Kluth DC, Bailey MA, Tharaux PL* & Dhaun N* (* co-first or co-last authors).

Eur Heart J 2019;40(9):768-784.

Endothelial EPAS1 deficiency is sufficient to promote parietal epithelial cell activation and FSGS in experimental hypertension. Luque Y*, Lenoir O*, Bonnin P, Hardy L, Chipont A, Placier S, Vandermeersch S, Xu-Dubois YC, Robin B, Lazareth H, Souyri M, Guyonnet L, Baudrie V, Camerer E, Rondeau E, Mesnard L, Tharaux PL. (* contributed equally to the work).

J Am Soc Nephrol. 2017;28(12):3563-3578.

Genetic and Pharmacological Inhibition of MicroRNA-92a Maintains Podocyte Cell Cycle Quiescence and Limits Crescentic Glomerulonephritis.

Hénique C, Bollée G, Loyer X, Grahammer F, Dhaun N, Camus M, Vernerey J, Guyonnet L, Gaillard F, Lazareth H, Meyer C, Bensaada I, L Legrès, Satoh T, Akira S, Bruneval P, Dimmeler S, Tedgui A, Karras A, Thervet E, Nochy D, Huber TB, Mesnard L, Lenoir O, Tharaux PL

Nat Commun. 2017 28;8(1):1829

Selective EGF-Receptor Inhibition in CD4+ T Cells Induces Anergy and Limits Atherosclerosis.

Zeboudj L*, Maître M*, Guyonnet L, Laurans L, Joffre J, Lemarie J, Bourcier S, Nour-Eldine W, Guérin C, Friard J, Wakkach A, Fabre E, Tedgui A, Mallat Z, Tharaux PL*, Ait-Oufella H* (co-first or co-last authors).

J Am Coll Cardiol. 2018;71(2):160-172.

Selective EGFR (Epidermal Growth Factor Receptor) Deletion in Myeloid Cells Limits Atherosclerosis-Brief Report.

Zeboudj L, Giraud A, Guyonnet L, Zhang Y, Laurans L, Esposito B, Vilar J, Chipont A, Papac-Milicevic N, Binder CJ, Tedgui A, Mallat Z, Tharaux PL, Ait-Oufella H.

Arterioscler Thromb Vasc Biol. 2018;38(1):114-119.

Endothelial Epas1 deficiency is sufficient to promote parietal epithelial cell activation and FSGS in experimental hypertension.

Luque Y*, Lenoir O*, Bonnin P, Hardy L, Chipont A, Placier S, Vandermeersch S, Xu-Dubois Y-C, Robin B, Lazareth H, Souyri M, Guyonnet L, Baudrie V, Camerer E, Rondeau E, Mesnard L, Tharaux PL

J Am Soc Nephrol. 2017 28(12):3563-3578

Hmox1 Deficiency Sensitizes Mice to Peroxynitrite Formation and Diabetic Glomerular Microvascular Injuries.

Lenoir O, Gaillard F, Lazareth H, Robin B, Tharaux PL.

J Diabetes Res. 2017;2017:9603924.

Cardiac Metabolic Deregulation Induced by the Tyrosine Kinase Receptor Inhibitor Sunitinib is rescued by Endothelin Receptor Antagonism.

Sourdon J, Lager F, Viel T, Balvay D, Moorhouse R, Bennana E, Renault G, Tharaux PL, Dhaun N, Tavitian B.

Theranostics. 2017;7(11):2757-2774. doi: 10.7150/thno.19551. eCollection 2017

The endothelin B receptor plays a crucial role for the adhesion of neutrophils to the endothelium in sickle cell disease.

Koehl B*, Nivoit P*, El Nemer W*, Lenoir O*, Hermand P, Pereira C, Brousse V, Guyonnet L, Ghinatti G, Benkerrou M, Colin Y, Le Van Kim C, Tharaux PL. **Haematologica.** 2017;102(7):1161-1172.

Sildenafil Prevents Podocyte Injury via PPAR- γ -Mediated TRPC6 Inhibition.

Sonneveld R, Hoenderop JG, Isidori AM, Henique C, Dijkman HB, Berden JH, Tharaux PL, van der Vlag J, Nijenhuis T.

J Am Soc Nephrol. 2017;28(5):1491-1505.

Targeting mTOR Signaling Can Prevent the Progression of FSGS.

Zschiedrich S, Bork T, Liang W, Wanner N, Eulenbruch K, Munder S, Hartleben B, Kretz O, Gerber S, Simons M, Viau A, Burtin M, Wei C, Reiser J, Herbach N, Rastaldi MP, Cohen CD, Tharaux PL, Terzi F, Walz G, Gödel M, Huber TB. **J Am Soc Nephrol.** 2017;28(7):2144-2157.

Absence of miR-146a in Podocytes Increases Risk of Diabetic Glomerulopathy via Up-regulation of ErbB4 and Notch-1.

Lee HW, Khan SQ, Khaliqdina S, Altintas MM, Grahammer F, Zhao JL, Koh KH, Tardi NJ, Faridi MH, Geraghty T, Cimbalk DJ, Susztak K, Moita LF, Baltimore D, Tharaux PL, Huber TB, Kretzler M, Bitzer M, Reiser J, Gupta V.

J Biol Chem. 2017;292(2):732-747.

Inhibition of Bromodomain and Extraterminal Domain Family Proteins Ameliorates Experimental Renal Damage.

Suarez-Alvarez B, Morgado-Pascual JL, Rayego-Mateos S, Rodriguez RM, Rodrigues-Diez R, Cannata-Ortiz P, Sanz AB, Egido J, Tharaux PL, Ortiz A, Lopez-Larrea C, Ruiz-Ortega M.

J Am Soc Nephrol. 2016; 28(2):504-519.

Efficient second-harmonic imaging of collagen in histological slides using Bessel beam excitation.

Vuillemin N, Mahou P, Débarre D, Gacoin T, Tharaux PL, Schanne-Klein MC, Supatto W, Beaupaire E.

Sci Rep. 2016;6:29863. doi: 10.1038/srep29863.

Endothelin-1 Induces Proteinuria by Heparanase-Mediated Disruption of the Glomerular Glycocalyx.

Garsen M, Lenoir O, Rops AL, Dijkman HB, Willemsen B, van Kuppevelt TH, Rabelink TJ, Berden JH, Tharaux PL, van der Vlag J.

J Am Soc Nephrol. 2016. pii: ASN.2015091070.

Delayed Healing of Sickle Cell Ulcers Is due to Impaired Angiogenesis and CXCL12 Secretion in Skin Wounds.

Nguyen VT, Nassar D, Batteux F, Raymond K, Tharaux PL, Aractingi S.

J Invest Dermatol. 2016;136(2):497-506. doi: 10.1016/j.jid.2015.11.005.

How Is Proteinuric Diabetic Nephropathy Caused by Disturbed Proteostasis and Autophagy in Podocytes?

Tharaux PL*, Huber TB*.

Diabetes. 2016;65(3):539-41. doi: 10.2337/dbi15-0026. (Editorial)

Platelet and Erythrocyte Sources of S1P Are Redundant for Vascular Development and Homeostasis, but Both Rendered Essential After Plasma S1P Depletion in Anaphylactic Shock.

Gazit SL, Mariko B, Théron P, Decouture B, Xiong Y, Couty L, Bonnin P, Baudrie V, Le Gall SM, Dizier B, Zoghndani N, Ransinan J, Hamilton JR, Gaussem P, Tharaux PL, Chun J, Coughlin SR, Bachelot-Loza C, Hla T, Ho-Tin-Noé B, Camerer E.

Circ Res. 2016;119(8):e110-26.

Angiogenin Mediates Cell-Autonomous Translational Control under Endoplasmic Reticulum Stress and Attenuates Kidney Injury.

Mami I, Bouvier N, El Karoui K, Gallazzini M, Rabant M, Laurent-Puig P, Li S, Tharaux PL, Beaune P, Thervet E, Chevet E, Hu GF, Pallet N.

J Am Soc Nephrol. 2016;27(3):863-76. doi: 10.1681/ASN.2015020196.

[Nrf2 drives podocyte-specific PPAR \$\alpha\$ expression that is essential to promote resistance to crescentic glomerulonephritis](#)

Henique C*, Bollee G*, Lenoir O, Dhaun N, Camus M, Chipont A, Flosseau K, Mandet C, Yamamoto M, Karras A, Thervet E, Bruneval P, Nochy D, Mesnard L, Tharaux P-L
J Am Soc Nephrol. 2016;27(1):172-88. doi: 10.1681/ASN.2014111080 (IF 9.5)

Podocyte-Specific Deletion of Murine CXADR Does Not Impair Podocyte Development, Function or Stress Response.
Schell C, Kretz O, Bregenzer A, Rogg M, Helmstädter M, Lisewski U, Gotthardt M, Tharaux PL, Huber TB, Grahammer F.

PLoS One. 2015;10(6):e0129424. doi: 10.1371

[Endothelial cell- and podocyte autophagy synergistically protect from diabetes-induced glomerulosclerosis](#)

Lenoir O , Jasiek M, Hénique C, Guyonnet L, Hartleben B, Bork T, Chipont A, Flosseau K, Bensaada I, Schmitt A, Massé JM, Souyri M, Huber TB, Tharaux PL

Autophagy. 2015 ;11(7):1130-45.

Circulating cell membrane microparticles transfer heme to endothelial cells and trigger vaso-occlusions in sickle cell disease.

Camus SM, De Moraes JA, Bonnin P, Abbyad P, Le Jeune S, Lionnet F, Loufrani L, Grimaud L, Lambry JC, Charue D, Kiger L, Renard JM, Larroque C, Le Clésiau H, Tedgui A, Bruneval P, Barja-Fidalgo C, Alexandrou A, Tharaux PL, Boulanger CM, Blanc-Brude OP.

Blood. 2015. pii: blood-2014-07-589283.

Early renal damage in patients with sickle cell disease in sub-Saharan Africa: a multinational, prospective, cross-sectional study.

Ranque, B, Mene A, Bara Diop I, Thia MM, , Diallo D, Diop S, Diagne I, Sanogo I, Kingue S, Chelo D, Wamba G, Diarra M, Anzouan JB, N'Guetta R, Diakité CH, Traore Y, Legueun G, Deme-Ly I, Belinga S, Boidy K, Kamara I, Tharaux PL, Jouven X.

Lancet Haematology, 2014, 1, (2), e64–e73

Regulation of the ROS Response Dynamics and Organization to PDGF Motile Stimuli Revealed by Single Nanoparticle Imaging.

Bouzigues CI, Nguyễn TL, Ramodiharilafy R, Claeson A, Tharaux PL, Alexandrou A.

Chem Biol. 2014;21(5):647-56.

[Direct action of endothelin-1 on podocytes promotes diabetic glomerulosclerosis.](#)

Lenoir O, Milon M, Virsolvy A, Hénique C, Schmitt A, Massé JM, Kotelevtsev Y, Yanagisawa M, Webb DJ, Richard S, Tharaux PL. **J Am Soc Nephrol.** 2014;25(5):1050-62.

Lutheran/basal cell adhesion molecule accelerates progression of crescentic glomerulonephritis in mice.

Huang J, Filipe A, Rahuel C, Bonnin P, Mesnard L, Guérin C, Wang Y, Le Van Kim C, Colin Y, Tharaux PL.

Kidney Int. 2014;85(5):1123-36.

Genetic background-dependent thrombotic microangiopathy is related to vascular endothelial growth factor receptor 2 signaling during anti-glomerular basement membrane glomerulonephritis in mice.

Mesnard L, Cathelin D, Vandermeersch S, Rafat C, Luque Y, Sohier J, Nochy D, Garçon L, Callard P, Jouanneau C, Verpont MC, Tharaux PL, Hertig A, Rondeau E.

Am J Pathol. 2014;184(9):2438-49.

Exclusive CX3CR1 dependence of kidney DCs impacts glomerulonephritis progression.

Hochheiser K, Heuser C, Krause TA, Teteris S, Ilias A, Weisheit C, Hoss F, Tittel AP, Knolle PA, Panzer U, Engel DR, Tharaux PL, Kurts C.

J Clin Invest. 2013;123(10):4242-4254.

Erythrocyte microparticles can induce kidney vaso-occlusions in a murine model of sickle cell disease.
Camus SM, Gausserès B, Bonnin P, Loufrani L, Grimaud L, Charue D, De Moraes JA, Renard JM, Tedgui A, Boulanger CM, Tharaux PL, Blanc-Brude OP.
Blood. 2012;120(25):5050-8.

The Epidermal Growth Factor Receptor Promotes Glomerular Injury and Renal Failure in Rapidly Progressive Crescentic Glomerulonephritis.

Bollée G and Flamant M, Schordan S, Fligny C, Rumpel E, Milon M, Schordan E, Sabaa N, Vandermeersch S, Galaup A, Rodenas A, Casal I, Sunnarborg Susan W, Salant DJ, Kopp JB, Threadgill DW, Quaggin SE, Dussaule JC, Germain S, Mesnard L, Endlich K, Boucheix C, Belenfant X, Callard P, Endlich N, Tharaux PL.
Nat Med. 2011;17(10):1242-50. doi: 10.1038/nm.2491

Sickling of red blood cells through rapid oxygen exchange in microfluidic drops

Abbyad P, Tharaux PL, Martin JL, Baroud CN, Alexandrou A
Lab Chip. 2010;10(19):2505-12

A Role for Angiotensin II Type 1 Receptors on Bone Marrow-Derived Cells in the Pathogenesis of Angiotensin II-Dependent Hypertension.

Crowley SD, Song Y-S, Sprung G, Griffiths R, Sparks M, Yan M, Burchette J-L, Howell DN, Lin EE, Okeiyi B, Stegbauer J, Yang Y, Tharaux P-L, Ruiz P.
Hypertension. 2010; 55:99-108

TGF-beta activity protects against inflammatory aortic aneurysm progression and complications in angiotensin II-infused mice.

Wang Y, Ait-Oufella H, Herbin O, Bonnin P, Ramkhelawon B, Taleb S, Huang J, Offenstadt G, Combadière C, Rénia L, Johnson JL, Tharaux PL, Tedgui A, Mallat Z.
J Clin Invest. 2010;120(2):422-32.

Glomerular Hyperfiltration in Adult Sickle Cell Anemia: A Frequent Hemolysis Associated Feature.

Haymann JP, Stankovic K, Levy P, Avellino V, Tharaux PL, Letavernier E, Grateau G, Baud L, Girot R, Lionnet F.
Clin J Am Soc Nephrol. 2010;5(5):756-61

Single europium-doped nanoparticles measure temporal pattern of reactive oxygen species production inside cells.

Casanova D, Bouzigues C, Nguyễn TL, Ramodiharilafy RO, Bouzahir-Sima L, Gacoin T, Boilot JP, Tharaux PL, Alexandrou A.
Nat Nanotechnol. 2009; 4(9):581-5. (IF: 26.8)

Endothelin receptor antagonism prevents hypoxia-induced mortality and morbidity in a mouse model of sickle cell disease.

Sabaa N, de Franceschi L, Bonnin P, Castier Y, Malpeli G, Debbabi H, Galaup A, Maier-Redelsperger M, Vandermeersch S, Scarpa A, Janin A, Levy B, Girot R, Beuzard Y, Leboeuf C, Henri A, Germain S, Dussaule J-C, Tharaux P-L.
J. Clin. Invest. 2008; 118(5):1924-33

Second harmonic microscopy to quantify renal interstitial fibrosis and arterial remodeling.

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J Biomed Opt. 2008;13(5):054041.

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Lionnet F, Bachmeyer C, Stankovic K, Tharaux PL, Girot R, Aractingi S.
Br J Haematol. 2008;142(6):991-2

Stimulation of lymphocyte responses by angiotensin II promotes kidney injury in hypertension.

Crowley SD, Frey CW, Gould SK, Griffiths R, Ruiz P, Burchette JL, Howell DN, Makhanova N, Yan M, Kim HS, Tharaux PL, Coffman TM.

Am J Physiol Renal Physiol. 2008;295(2):F515-24.

Ultrasound imaging of renal vaso-occlusive events in transgenic sickle mice exposed to hypoxic stress.

Bonnin P, Sabaa N, Flamant M, Debbabi H, Tharaux PL.

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