

Francois Pattou, MD

Professor of General Surgery, Lille University, Lille. France
Head, General and Endocrine Surgery, University Hospital, Lille. France
Director, INSERM UMR 1190 Translational research on Diabetes, Lille, France
fpattou@univ-lille2.fr



Short Biography

François Pattou is professor of Surgery at the Faculty of Medicine of Lille, France, and head of the Department of general and endocrine surgery at Lille University Hospital. François Pattou also leads a research group at the University of Lille, INSERM U1190, devoted the clinical development of biotherapies for treating diabetes and a funding member of the LABEX European Genomic Institute for Diabetes (EGID).

François Pattou's research is devoted to the surgical treatment of endocrine and metabolic diseases and focused on cell therapy for type 1 diabetes and metabolic surgery for type 2 diabetes. Pr Pattou has authored more than 300 papers in peer review journals (h-index 55). He is also the principal investigator of several ongoing clinical trials of islet cell transplantation and metabolic surgery. The recipient of numerous research grants from national and international institutions (Programme d'Investissements d'Avenir, European Commission, Innovative Medicine Initiative, Agence Nationale de la Recherche, Juvenile Diabete Research Foundation, Fondation Francophone pour le recherche sur le diabète), François Pattou has been awarded by several prizes (National Academy of Medicine, Rachmine Levine scientific achievement award, Matmut award).

Recent selected publications

1. Caiazzo R, Lassailly G, Leteurtre E, Baud G, Verkindt H, Raverdy V, Buob D, Pigeyre M, Mathurin P, **Pattou F**. Roux-en-Y gastric bypass versus adjustable gastric banding to reduce nonalcoholic fatty liver disease: a 5-year controlled longitudinal study. *Ann Surg*. 2014 Nov;260(5):893-8.
2. Bonner C, Kerr-Conte J, Gmyr V, Queniat G, Moerman E, Thévenet J, Beaucamps C, Delalleau N, Popescu I, Malaisse W, Sener A, Deprez B, Abderrahmani A, Staels B, **Pattou F**. Inhibition of the glucose transporter SGLT2 with dapagliflozin in pancreatic alpha cells triggers glucagon secretion. *Nature Med* 2015;21(5):512-7.
3. Lassailly G, Caiazzo R, Buob D, Pigeyre M, Verkindt H, Labreuche J, Raverdy V, Leteurtre E, Dharancy S, Louvet A, Romon M, Duhamel A, **Pattou F***, Mathurin P*. Bariatric Surgery Reduces Features of Nonalcoholic Steatohepatitis in Morbidly Obese Patients. *Gastroenterology*. 2015;149(2):379-88.
4. Baud G, Daoudi M, Hubert T, Raverdy V, Pigeyre M, Hervieux E, Devienne M, Ghunaim M, Queon A, Pigny P, Klein A, Caiazzo R, **Pattou F**. Bile diversion decreases sodium dependent glucose intestinal uptake after Roux-en-Y Gastric Bypass (RYGB). *Cell Metab* 2016 23, 547–553
5. Raverdy V, Baud G, Pigeyre M, Verkindt H, Torres F, Preda C, Thuillier D, Gélé P, Vantyghem MC, Caiazzo R, **Pattou F**. Incidence and Predictive Factors of Postprandial Hyperinsulinemic Hypoglycemia After Roux-en-Y Gastric Bypass: A Five year Longitudinal Study. *Ann Surg* 2016;264:878-885.
6. Baud G, Raverdy V, Bonner C, Daoudi M, Caiazzo R, **Pattou F**. Sodium glucose transport modulation in type 2 diabetes and gastric bypass surgery. *Surg Obes Relat Dis*. 2016;12:1206-12.
7. Ben-Othman N, Vieira A, Courtney M, Record F, Gjernes E, Avolio F, Hadzic B, Druelle N, Napolitano T, Navarro-Sanz S, Silvano S, Al-Hasani K, Pfeifer A, Lacas-Gervais S, Leuckx G, Marroquí L, Thévenet J, Madsen OD, Eizirik DL, Heimberg H, Kerr-Conte J, **Pattou F**, Mansouri A, Collombat P. Long-term GABA administration induces alpha cell-mediated beta-like cell neogenesis. *Cell* 2017;168:73-85
8. Chávez-Talavera O, Baud G, Spinelli V, Daoudi M, Kouach M, Goossens JF, Vallez E, Caiazzo R, Ghunaim M, Hubert T, Lestavel S, Tailleux A, Staels B, **Pattou F**. Roux-en-Y gastric bypass increases systemic but not portal bile acid concentrations by decreasing hepatic bile acid uptake in minipigs. *Int J Obes* 2017;41:664-668.
9. Caiazzo R, Branche J, Daoudi M, Solecki G, Hubert T, Quenon A, Raverdy V, Cousin F, Henin F, Dalle V, Noel S, Vanbiervliet G, Barthet M, **Pattou F**. Increased postprandial glucagon-like peptide-1 (GLP-1) production after endoscopic gastrointestinal bypass using the Cousin lumen-apposing stent in a porcine model. *Endoscopy*. 2018 50(1):14-21.
10. Caiazzo C, Baud G, Clement G, Lenne X, Torres F, Dezfoulian D, Lebuffe G, Kipnis E, Dervaux D, **Pattou F**. Impact of centralized management of bariatric surgery severe complications on 90-day mortality. *Ann Surg* 2018 (in press)