

Curriculum Vitae Michelangelo Foti

Name Michelangelo FOTI
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A. Education.

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Geneva, Switzerland	B.S.	1991	Biochemical sciences
University of Geneva, Switzerland	Ph.D	1996	Cell biology
University of Geneva, Switzerland	MBA	2004	Entrepreneurship

B. Positions.

1991-1996 Thesis work, Div. of Infectious Disease, Geneva Hospital (HUG), Switzerland (Laboratory of K.-H. Krause)
 1997-1998 Research Associate, Department of Morphology, School of Medicine, Faculty of Medicine, University of Geneva, Switzerland (Laboratory of J.-L. Carpentier)
 1998-2000 Research Associate, UCSD School of Medicine, Div. Cell. & Molec. Medicine, San Diego, CA, USA (Laboratory of S. Emr)
 2001-2003 Research Associate, Department of Morphology, School of Medicine, Faculty of Medicine, University of Geneva, Switzerland (Laboratory of J.-L. Carpentier)
 2004-2012 Research Group Leader (MER), Department of Cell. Physiology & Metabolism, Faculty of Medicine, University of Geneva, Switzerland
 2012 Associate professor, Department of Cell Physiology & Metabolism, Faculty of Medicine, University of Geneva, Switzerland
2005-present Co-director of the EM core facility (PFMU) at the Faculty of Medicine, University of Geneva, Switzerland
2018-present Director of the Department of Cell Physiology and Metabolism, Faculty of Medicine, University of Geneva, Switzerland
2021-present Full professor, Department of Cell Physiology & Metabolism, Faculty of Medicine, University of Geneva, Switzerland

C. Teaching.

INSTITUTION AND LOCATION	YEAR(s)	AREA
Department of Public Education, Geneva	1988-1996	Biology, Chemistry & Mathematics
School of Medicine, Univ. of Geneva, Switzerland	1996-at present	Tutorials in histology
School of Medicine, Univ. of Geneva, Switzerland	2001-at present	Problem-based learning "Inflammation Cancer and Ageing"
School of Pharmacy, Univ. of Geneva, Switzerland	2003-at present	Lectures in histology
Health care professionals, Univ. of Geneva, Switzerland	2003-at present	Lectures in histology
School of Sciences, Univ. of Geneva, Switzerland	2004-at present	Lectures in electron microscopy techniques
School of Medicine, Univ. of Geneva, Switzerland	2008-at present	Optional course: "Signaling in cancer"
School of Medicine, Univ. of Geneva, Switzerland	2009-at present	Optional course: "Endocrinology"
School of Medicine, Univ. of Geneva, Switzerland	2011-2016	Problem-based learning "Nutrition and Metabolism"
School of Sciences, Univ. of Geneva, Switzerland	2011-at present	MAS toxicology: Lipotoxicity & Diabetes
School of Medicine, Univ. of Geneva, Switzerland	2011-at present	Optional course: "Le Diabète 2012"
School of Medicine, Univ. of Geneva, Switzerland	2011-at present	Module Histology for PhD students
School of Medicine, Univ. of Geneva, Switzerland	2011-at present	Optional course: "Hepatic and muscle metabolism"
School of Medicine, Univ. of Geneva, Switzerland	2018-at present	Digestive functions and glycemic control
School of Medicine, BioMed Sciences, Univ. of Geneva, Switzerland	2017-at present	Oral communication
School of Medicine, Univ. of Geneva, Switzerland	2018-at present	Problem-based learning "Integration"

D. Professional memberships

2007	American Society for Cell Biology, USA.
2008-at present	European Association for the Study of Diabetes, Europe.
2008-at present	European Association for the Study of the Liver, Europe.
2012-at present	G2L2 (Groupes de Recherche en Endocrinologie, Diabétologie et Maladies Métaboliques des Universités de la Région Rhône-Alpes).
2015-at present	Diabetes Center, Faculty of Medicine, University of Geneva
2018-at present	Cancer Center (CRTOH), Faculty of Medicine, University of Geneva

E. Master and thesis direction, postdoctoral trainees

Masters: M. Nicolas Desmeules (2007, master biology), M. Leo Stussi (2012, master biology), Ms Virginia Cravero (Erasmus, 2012, biology), Clemence Tropis (2018 master pharmacy), Luiza Skowronska (2019, master toxicology), Eva Duque Escolar (2019, master toxicology).

PhD students: Marion Peyrou (2008-2013, biology), Lucie Bourgoin (2008-2013, biology), Dorothea Portius (2012-2017, biology), Nicolas Calo (2012-2017, biochemistry), Dobrochna Dolicka (2018 - at present, biology), Marta Sousa (2018 - at present, biology).

Postdoctoral Trainee: Isabelle Tchou (2003-2005), Manlio Vinciguerra (2005-2008), Pierluigi Ramadori (2010-2013), Alfredo Fort (2014-2015), Anne-Sophie Ay-Berthomieu (2014-2018), Flavien Berthou (2014-2018), Cyril Sobolewski (2014-at present), Nicolas Calo (2017-2018), Monika Gjorgjieva (2018-at present)

F. Scientific functions

External expert for PhD thesis: Manlio Vinciguerra (PhD, 2004), David Semela (MD-PhD, 2009), Monika Gjorgjieva (PhD, 2018), Ekaterina Kachaylo (PhD, 2018), Michael Linnecker (MD-PhD, 2018), Antonija Sakic (PhD 2020)

Member of the editorial board: "World Journal of Gastroenterology" (2010-2013)

Reviewer of manuscripts submitted to the following scientific journals: "Antiinfective drugs and chemotherapy", "Current Pharmaceutical Design", "Clinical Sciences", "IUMB life", "FEBS Letters", "MRMC", "Cellular and Molecular Life Sciences", "Current Pharmaceutical Design", "Plos One", "Journal of Proteomic", "Lab. Invest.", "Horm. Met. Res.", "Molecular & Cellular Endocrinology", "Trends in Endocrinology and Metabolism", "Diabetologia" et "Diabetes", "Journal of Pathology", "Digestive and liver diseases", "Annals of Surgery", "Hepatology Research", "World Journal of Gastroenterology", "Liver International", "Hepatology", "Journal of Hepatology", "Gastroenterology", "Gut".

Project Reviewer of the following scientific institutions: D-Cure (Tel Aviv, Israel), HRB, (Dublin, Ireland), NMRC (Singapore), l'Institut National Français du Cancer (Paris, France), Velux Stiftung (Zurich, Switzerland), Agence National de la Recherche (Paris, France), Fondation Francophone pour la Recherche sur le Diabète (Paris, France), Association for International Cancer Research (AICR, Scotland), Swiss National Science Foundation (Bern, Switzerland), the Swiss Cancer League (Bern, Switzerland), Agence française d'évaluation de la recherche et de l'enseignement supérieur (AERES) (Paris, France), The High Council for Evaluation of Research and Higher Education (Hcéres).

Scientific advisor for the Swiss Foundation against Liver Cancer until 2019 (<https://cancer-du-foie.ch>)

Scientific advisor for the Gilles Mentha prizes awarded by the Center of hepato-biliary-pancreatic diseases HUG, Geneva.

Co-organizer of "COST ACTION B17 International Conference on Obesity, Diabetes & Aging: from insulin secretion to insulin action, Geneva, Switzerland, 28-29 October 2005".

Co-organizer of the annual Hepatobiliary and Gastrointestinal Research Retreat since 2014 at present (which brings together research groups from GE, VD, ZH, BS, BE)

Member of the committee of the G2L2 association (Groupes de Recherche en Endocrinologie, Diabétologie et Maladies Métaboliques des Universités de la Région Rhône-Alpes)

G. Administrative functions

2005-2017	Scientific advisor Electron microscopy core facility (PFMU), Faculty of Medicine, University of Geneva.
2005- at present	Member of the "Conseil participatif", Faculty of Medicine, University of Geneva.
2016- at present	Member of the Medicine Bachelor committee, Faculty of Medicine, University of Geneva.
2016- at present	Responsible of the teaching unit "Cancer, Inflammation and ageing"), Faculty of Medicine, University of Geneva.
2018- at present	Member of the Biomedical Science Bachelor committee, Faculty of Medicine, University of Geneva.
2018- at present	Head of the Electron microscopy core facility (PFMU), Faculty of Medicine, University of Geneva.
2018- at present	Head of the Department of Cell Physiology & Metabolism, Faculty of Medicine, University of Geneva.

H. Awards and fellowships

Personal

1998	Wyeth-Lederle Award from the Swiss Society for Infectious Diseases.
1999-2001	Advanced postdoc mobility award from the SNSF.
1999-2000	Advanced postdoc mobility award from the SNSF.

Studies performed in the lab

2012	Janssen Virology Award from Janssen-Cilag AG.
2017	Gilles Mentha Award from the HUG, Geneva.
2018	Gustave Humbert Award from the Faculty of Medicine of Geneva.
2018	Gilles Mentha Award from the HUG, Geneva.

I. List of publication.

Published peer-reviewed articles

1. Kaufmann B, Boulle P, Berthou F, Fournier M, Beran D, Ciglenecki I, Townsend M, Schmidt G, Shah M, Cristofani S, Cavailler P, Foti M, Scapozza L: Heat-stability study of various insulin types in tropical temperature conditions: new insights towards improving diabetes care. *Plos One*, 2021, *In Press*.
2. Gjorgjieva M, Sobolewski C, Ay AS, Abegg D, Correia de Sousa M, Portius D, Berthou F, Fournier M, Maeder C, Rantakari P, Zhang FP, Poutanen M, Picard D, Montet X, Nef S, Adibekian A, **Foti M**. Genetic ablation of miR-22 fosters diet-induced obesity and nafld development. *J Pers Med*. 2020 Oct 14;10(4):E170. doi: 10.3390/jpm10040170. *In Press*.
3. Dolicka, D, Sobolewski C, Gjorgjieva M, Correia de Sousa M, Berthou F, De Vito C, Colin DJ, Bejuy O, Fournier M, Maeder C, Blackshear PJ, Rubbia-Brandt L and **Foti M**. Tristetraprolin promotes hepatic inflammation and tumour intitiation but restrains cancer progression to malignancy. *Cellular and Molecular Gastroenterology and Hepatology*, 2020. *In Press*.
4. Guarino M , Kumar P, Felser A, Terracciano LM, Guixé-Muntet S, Humar B, **Foti M**, Nuoffer JM, St-Pierre MV and Dufour JF. Exercise attenuates the transition from fatty liver to steatohepatitis and reduces tumor formation in mice. *Cancers*. 2020. *In press*
5. Frohlich J, Kovacicovica K, Mazza T, Emma MR, Cabibi D, **Foti M**, Sobolewski C, Oben JA, Peyrou M, Villarroya F, Soresi M, Rezzani R, Cervello M, Bonomini F, Alisi A and Vinciguerra M. GDF11 induces mild hepatic fibrosis independent of metabolic health. *Aging*. 2020. *In Press*.
6. Sobolewski C, Abegg D, Berthou F, Dolika D, Calo N, Sempoux C, Fournier M, Maeder C, Ay AS, Clavien PA, Humar B, Dufour JF, Adibekian A and **Foti M**. S100A11/ANXA2 belongs to a tumor suppressor/oncogene network deregulated early with steatosis and involved in inflammation and hepatocellular carcinoma development. *Gut*. 2020 Oct;69(10):1841-1854.
7. Linecker M, Frick L, Kron P, Limani P, Kambakamba P, Tschuor C, Langiewicz M, Kachaylo E, Tian Y, Schneider MA, Ungethüm U, Calo N, **Foti M**, Dufour JF, Graf R, Humar B, Clavien PA. Exercise improves outcomes of surgery on fatty liver in mice: A novel effect mediated by the AMPK pathway. *Ann Surg*. 2020 Feb;271(2):347-355.
8. Li L, Martin-Levilain J, Jiménez-Sánchez C, Karaca M, **Foti M**, Martinou JC, Maechler P. *In vivo* stabilization of OPA1 in hepatocytes potentiates mitochondrial respiration and gluconeogenesis in a prohibitin-dependent way. *J Biol Chem*. 2019. Aug 23;294(34):12581-12598.
9. Clément S, Sobolewski C, Gomes D, Rojas A, Goossens N, Conzelmann S, Calo N, Negro F and **Foti M**: Activation of the oncogenic miR-21-5p promotes HCV replication and steatosis induced by the viral core 3a protein. *Liver Int*. 2019. Jul;39(7):1226-1236.
10. Neirijnck Y, Kühne F, Mayère C, Pavlova E, Sararols P, **Foti M**, Atanassova N, Nef S. Tumor suppressor PTEN regulates negatively sertoli cell proliferation, testis size, and sperm production in vivo. *Endocrinology*. 2019. 160(2):387-398.
11. Saran U, Guarino M, Rodriguez S, Simillion C, **Foti M**, Humar B, St-Pierre M, Dufour JF: Anti-tumoral effects of exercise on hepatocellular carcinoma growth. *Hepatology Communications*. 2018. Mar 22;2(5):607-620
12. Adam M, Heikelæ H, Sobolewski C, Portius D, Mæki-Jouppila J, Mehmood A, Adhikari P, Esposito I, Elo LL, Zhang FP, Ruohonen ST, Strauss L, **Foti M***, Poutanen M*. Hydroxysteroid (17β) dehydrogenase 13 deficiency triggers hepatic steatosis and inflammation in mice. *FASEB J*. 2018. Jun 32(6):3434-3447 * *Equal contribution (Impact factor 2017: 5.595)*
13. Brun J, Berthou F, Trajkowski M, Maechler P, **Foti M** and Bonnet N. Bone regulates browning and energy metabolism through mature osteoblast/osteocyte PPARalpha expression. *Diabetes*, 2017. Oct;66(10):2541-2554
14. Kachaylo E, Tschuor C, Calo N, Borgeaud N, Limani P, Piguët AC, Dufour JF, **Foti M**, Graf R, Clavien PA and Humar B. PTEN downregulation promotes α -oxidation to fuel hypertrophic liver growth after hepatectomy in mice. *Hepatology*, 2017 Apr 24. Sep;66(3):908-921.
15. Linecker M, Limani P, Kambakamba P, Kron P, Tschuor C, Calo N, **Foti M**, Dufour JF, Graf R, Humar B, Clavien PA. Omega-3 Fatty Acids Protect Fatty and Lean Mouse Livers After Major Hepatectomy. *Ann Surg*. 2017 Aug;266(2):324-332.
16. Calo N, Ramadori P, Sobolewski C, Romero Y, Maeder C, Fournier M, Rantakari P, Zhang FP, Poutanene M, Dufour JF, Humar B, Nef S and **Foti M**. Stress-activated miR-21/miR-21* in hepatocytes promotes lipid and glucose metabolic disorders associated with high-fat diet consumption. *Gut*, 2016. Nov;65(11):1871-1881.
17. Sanchez-Pareja A, Clément A, Peyrou M, Spahr S, Negro F, Rubbia-Brandt L and **Foti M**. PTEN is a Differential Diagnostic Marker between Nonalcoholic and Alcoholic Fatty Liver Disease. *WJG*, 2016, 14;22(14):3735-45
18. Desmurs M, **Foti M**, Raemy E, Vaz FM, Martinou JC, Bairoch A and Lane A. C11orf83, a mitochondrial cardioplin-binding protein involved in bc1 complex assembly and supercomplex stabilization. *Mol. Cell. Biol*. 2015, 35(7):1139-56.
19. Peyrou M, Bourgoin L, Poher A, Altirriba J, Maeder C, Caillon A, Fournier M, Montet X, Rohner-Jeanrenaud F, **Foti M**. Hepatic PTEN deficiency improves muscle insulin sensitivity and decreases adiposity in mice. *J Hepatol*. 2015, 62(2):421.

20. Peyrou M, Clément S, Maier C, Bourgoïn L, Branche M, Conzelman S, Kaddai V, **Foti M*** and Negro F*: PTEN protein phosphatase activity regulates hepatitis C virus secretion through modulation of the cholesterol metabolism. *J Hepatol.* 2013, 59(3) :420-6. * *Equal contribution*
21. Rappa F, Greco A, Podrini C, Cappello F, **Foti M**, Bourgoïn L, Peyrou M, Marino A, Scibetta N, Williams R, Mazzoccoli G, Federici M, Paziienza V, Vinciguerra M: Immunopositivity for histone macroH2A1 isoforms marks steatosis-associated hepatocellular carcinoma. *Plos One.* 2013, 8(1) :e54458.
22. Nunes P, Hernandez T, Roth I, Qiao X, Strebel D, Bouley R, Charollais A, Ramadori P, **Foti M**, Meda P, Féraïlle E, Brown D and Hasler U : Hypertonic stress promotes autophagy and microtubule-dependent autophagosomal clusters. *Autophagy* 2013, 9(4):550-67.
23. Zimmermann C, Cederroth CR, Bourgoïn L, **Foti M** and Nef S: Prevention of diabetes in *db/db* mice by dietary soy is independent of isoflavones. *Endocrinology*, 2012. 153(11) :5200-11
24. Schwartz D, Brunner Y, Couté Y, **Foti M**, Wollheim CB, Sanchez JC. Improved characterization of the insulin secretory granule proteomes. *Journal of Proteomics*, 2012, 75(15) :4620-31.
25. Deblon N, Bourgoïn L, Veyrat-Durebex C, Peyrou M, Vinciguerra M, Caillon A, Maeder C, Fournier M, Montet X, Rohner-Jeanrenaud F and **Foti M**. Chronic mTOR inhibition with Sirolimus induces muscle insulin resistance despite weight loss in rats. *Brit. J.Pharmacol.*, 2012, 165(7):2325-40.
26. Deblon N, Veyrat-Durebex C, Bourgoïn L, Caillon A, Bussier AL, Petrosino S, Piscitelli F, Legros JJ, Geenen V, **Foti M**, Wahli W, Di Marzo V and Rohner-Jeanrenaud F. Mechanisms of the anti-obesity effects of oxytocin in diet-induced obese rats. *Plos One.* 2011, 6(9):e25565.
27. Clément S, Peyrou M, Sanchez-Pareja A, Bourgoïn L, Ramadori P, Suter D, Vinciguerra M, Guilloux K, Pascarella S, Rubbia-Brandt L, Negro F and **Foti M**: Downregulation of PTEN and IRS1 by HCV 3a core protein triggers the formation of large lipid droplets in hepatocytes. *Hepatology*, 2011, 54(1):38-49.
28. Escola JM, Kuenzi G, Gaertner A, **Foti M** and Hartley O: CC chemokine receptor 5 (CCR5) desensitization:cycling receptors accumulate in the trans-golgi network. *J Biol Chem* 2010, 285(53):41772-80.
29. Fournier M, Peyrou M, Bourgoïn L, Maeder C, Tchou I and **Foti M**: CD4 dimerization requires two cysteines in the cytoplasmic domain of the molecule and occurs in microdomains distinct from lipid rafts. *Mol. Immunol.*, 2010. 47(16):2594-603.
30. Bonnet N, Standley KN, Bianchi EN, Stadelmann V, **Foti M**, Conway SJ and Ferrari SL. The matricellular protein Periostin is required for sclerostin inhibition and the anabolic response to mechanical loading and physical activity. *J. Biol.Chem.*, 2009. 284(51):35939.
31. Basset O, Deffert C, **Foti M**, Bedard K, Jaquet V, Ogier-Denis E and Krause K-H. NADPH oxidase 1 deficiency alters caveolin phosphorylation and angiotensin II-receptor localization in vascular smooth muscle. *Antioxydants & Redox Signaling*, 2009. 11(10):2371-84.
32. Veyrat-Durebex, C, Montet, X, Vinciguerra M, Gjinovci, A, Meda P, **Foti, M**, and Rohner-Jeanrenaud F. The Lou/C rat: A model of spontaneous food restriction associated with improved insulin sensitivity and decreased lipid storage in adipose tissue. *AJP-Endocrinology and Metabolism*, 2009, 296(5):E1120-32.
33. Vinciguerra M, Carrozzino F, Peyrou M, Carlone S, Montesano R, Benelli R and **Foti M**. Unsaturated fatty acids promote hepatoma proliferation and progression through downregulation of the tumor suppressor PTEN. *Journal of Hepatology*, 2009, 50(6): 1132-41.
34. Butoescu N, Seemayer C, **Foti M**, Jordan O and Doelker E. Dexamethasone-containing PLGA superparamagnetic microparticles as carrier for the local treatment of arthritis: cell study and intra-articular injection in mice. *Biomaterials*, 2009, 30(9):1772-80.
35. Preynat-Seauve O, Suter DM, Tirefort D, Turchi L, Virolle T, Chneiweiss H, **Foti M**, Lobrinus J-A, Stoppini L, Feki A, Dubois-Dauphin M and Krause K-H. Development of Human Nervous Tissue upon Differentiation of Embryonic Stem Cells in Three Dimensional Culture. *Stem cells*, 2009, 27(3):509-520.
36. Vinciguerra M, Sgroi A, Veyrat-Durebex C, Rubbia-Brandt L, Buhler LH and **Foti M**: Unsaturated fatty acids inhibit the expression of tumor suppressor phosphatase and tensin homolog (PTEN) via microRNA-21 up-regulation in hepatocytes. *Hepatology*, 2009, 49(4):1176-84.
37. Lorenzi O, Frieden M, Villemin P, Fournier M, **Foti M** and Vischer U: PKC δ mediates Von Willebrand Factor secretion from endothelial cells in response to VEGF but not histamine. *J Thromb. Haemost.* 2008, 6(11):1962-1969
38. Cederroth CR, **Vinciguerra M**, Gjinovci A, Kühne F, Klein M, Cederroth M, Caille D, Suter M, Neumann D, James RW, Doerge DR, Wallimann T, Meda P, **Foti M**, Rohner-Jeanrenaud F, Vassalli JD and Nef S: Dietary phytoestrogens activate AMP-activated protein kinase with improvement in lipid and glucose metabolism. *Diabetes*, 2008, 57(5):1176.
39. Vinciguerra M, Veyrat-Durebex C, Moukil MA, Rubbia-Brandt L, Rohner-Jeanrenaud F and **Foti M**: PTEN downregulation by unsaturated fatty acids triggers hepatic steatosis via an NF- κ B/p65/mTOR-dependent mechanism. *Gastroenterology*. 2008. 134(1):268-80
40. Khurana S, Kremontsov D, Parseval A, Elder JH, **Foti M** and Thali M: HIV-1 and influenza virus exit via different membrane microdomains. *J Virology*, 2007 81(22):12630-40.
41. Cederroth CR, **Vinciguerra M**, Kühne F, Madani R, Doerge DR, Visser TJ, **Foti M**, Rohner-Jeanrenaud F, Vassalli J-D, and Nef S: A Phytoestrogen-Rich Diet Increases Energy Expenditure and Decreases Adiposity In Mice. *Environmental Health Perspectives*, 2007. 115(10):1467-73
42. De Filippi L, Fournier M, Cameroni E, De Virgilio C, **Foti M** and Deloche O: Membrane stress is coupled to a rapid translational control of gene expression in chlorpromazine-treated cells. *Current Genetics*, 2007, 52(3-4):171-85.
43. De Gottardi A, Vinciguerra M, Sgroi A, Moukil M, Ravier-Dall'Antonia F, Paziienza V, Pugnale P, **Foti M** and Hadengue A: Microarray analyses and molecular profiling of steatosis induction in immortalized human hepatocytes. *Lab. Investigation*, 2007, 87(8):792-806.
44. Mouche S, Katic M, Tseng YH, Carnesecchi S, Steger K, **Foti M**, Meier CA, Muzzin P, Kahn CR and Szanto I: The NADPH oxydase NOX4 is a marker of adipocytes differentiation. *BBA – Molecular Cell Research*, 2007, 1773(7):1015-27.
45. Brunner Y, Couté Y, Iezzi M, **Foti M**, Fukuda, M, Hochstrasser DF, Wollheim CB and Sanchez JC: Proteomic analysis of insulin secretory granules. *Mol. Cell. Proteomics*, 2007, 6(6):1007-1017. (*Impact factor 2006*: 9.620).

46. **Foti M**, Fournier M, Porcheron G, Maeder C and Carpentier JL: The necks of caveolae is distinct plasma membrane subdomains which concentrate insulin receptors in 3T3-L1 adipocytes. *PNAS* 2007, 104(4):1242-1247.
47. Paziienza V, Clément S, Pugnala P, Conzelman S, **Foti M**, Mangia A and Negro F: The hepatitis C virus core protein of genotype 3A and 1B down-regulate insulin receptor substrate 1 via genotype-specific mechanisms. *Hepatology* 2007, 45(5):1164-71.
48. Carnesecchi S, Carpentier JL, **Foti M** and Szanto I: Insulin-induced vascular endothelial growth factor expression is mediated by the NADPH oxidase NOX3. *Exp. Cell Res.*, 2006, 312(17):3413-24. (*Impact factor 2006: 3.777*).
49. Nydegger S, Khurana S, Kremontsov D, **Foti M** and Thali M: High resolution mapping of tetraspanin-enriched microdomains (TEMs) that can function as gateways for HIV. *J Cell Biol.* 2006, 173(5):795-807.
50. Hezareh M, Moukil MA, Szanto I, Ponderzewski M, Cherix N, Brown SJ, Carpentier JL and **Foti M** : Mechanisms of HIV Receptor and co-Receptor Downregulation by Prostratin: Role of conventional and novel PKC isoforms. *Antiviral Chem.&Chemot.* 2004, 15(4):207-222.
51. Nydegger S, **Foti M**, Derdowski A, Spearman P, Thali M: HIV-1 egress is gated through late endosomal membranes. *Traffic*, 4(12):902-910, 2003.
52. Ikononov OC, Sbrissa D, **Foti M**, Carpentier JL, Shisheva A: PIKfyve controls fluid-phase endocytosis but not recycling/degradation of endocytosed receptors or sorting of procathepsin D by regulating multivesicular body morphogenesis. *Mol. Biol. Cell*, 14(11):4581-91, 2003.
53. Shackleton S, Hamer I, **Foti M**, Zumwald N, Maeder C and Carpentier JL: Role of two diisoleucine-like motifs in insulin receptor anchoring to microvilli. *J. Biol.Chem.*, 277(46):43631-43637, 2002. (*Impact factor 2002: 7.258*).
54. Hamer I, **Foti M**, Emkey R, Cordier-Bussat M, Philippe J, De Meyts P, Maeder C, Kahn R and Carpentier JL: An arginine to cysteine 252 mutation in insulin receptors from a patient with severe insulin resistance inhibits receptor internalization but preserves signaling events. *Diabetologia*, 45:657-667, 2002.
55. **Foti M**, Phelouzat MA, Holm A., Rasmusson B and Carpentier JL: p56^{Lck} anchors CD4 to distinct microdomains on microvilli. *PNAS*, 99(4):2008-2013, 2002.
56. **Foti M**, Audhya A, Emr SD: Sac1 lipid phosphatase and Stt4 PtdIns 4-kinase regulate a pool of PtdIns(4)P that functions in the control of the actin cytoskeleton and vacuole morphology. *Mol. Biol. Cell*, 12:2396-2411, 2001.
57. Audhya A*, **Foti M***, Emr SD: Distinct roles for the yeast PIns 4-kinases, Stt4p and Pik1p, in secretion, cell growth and organelle membrane dynamics. *Mol. Biol. Cell*, 11:2673-2689, 2000. * **Both authors contribute equally to this work.**
58. **Foti M**, Cartier L, Piguat V, Lew DP, Carpentier JL, Trono D, Krause KH,: The HIV Nef protein alters Ca²⁺ signaling in myelomonocytic cells through SH3-mediated protein-protein interactions. *J. Biol.Chem.*, 274(49):34765, 1999.
59. Sinha B, Francois P, Nüsse O, **Foti M**, Hartford OM, Vaudaux P, Foster TJ, Lew DP, Herrmann M and Krause KH: Fibronectin-binding protein acts as *Staphylococcus aureus* invasin via fibronectin bridging to integrin $\alpha 5 \beta 1$. *Cell. Microbiol.*, 1(2):101-118, 1999.
60. Piguat V, Gu F, **Foti M**, Demaurex N, Gruenberg J, Carpentier JL and Trono D: Nef-induced CD4 degradation: a diacidic-based motif in Nef functions as a lysosomal targeting signal through the binding of β -COP in endosomes. *Cell*, 97:63-73, 1999.
61. Gilbert A, Paccaud J.-P, **Foti M**, Porcheron G, Balz J, Carpentier J-L: Direct demonstration of the endocytic function of caveolae by a cell-free assay. *J. Cell Science*. 112:1101-1110, 1999. (*Impact factor 1999: 6.044*).
62. Poussin C, **Foti M**, Carpentier JL and Pugin J: CD14-dependent endotoxin internalization via a macropinocytic pathway. *J.Biol.Chem.*, 273(32):20285, 1998.
63. Piguat V, Chen YL, Mangasarian A, **Foti M**, Carpentier JL, Trono D: Mechanism of Nef-induced CD4 downregulation: Nef connects CD4 with the α chain of adaptor complexes. *EMBO J.* 17(9):2472-2481, 1998.
64. **Foti M**, Mangasarian A, Piguat V, Lew DP, Krause KH, Trono D, Carpentier JL: Nef-mediated clathrin-coated pit formation. *J. Cell Biol.* 139:37-40, 1997.
65. **Foti M**, Carpentier JL, Aiken C, Trono D, Lew PD, Krause KH: Second messenger regulation of receptor association with clathrin-coated pits: a novel and selective mechanism in the control of CD4 endocytosis. *Mol. Biol. Cell*, 8:1377-89, 1997.
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