

# CURRICULUM VITAE



## Renseignements personnels

Nom : Gronchi  
Prénom : Fabrizio  
Née le : 12 juin 1972, Agno (TI)  
Adresse : Chemin de Villars 6  
1092 Belmont sur Lausanne  
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## Certificats

2014 Certificat investigateur Clinique (UNIL)  
2013 Doctorat UNIL: In vivo validation of the use of rotational thromboelastometry (ROTEM) during cardiopulmonary by-pass.  
2013 ATLS  
2012 Certificat RESAL module 1  
2010 Diplôme EACTA  
2007 Spécialiste FMH Anesthésiologie  
2002 ACLS  
1999 Diplôme fédéral de médecine  
Université de Lausanne  
1991 Maturité fédérale type C  
1988 Certificat d'études secondaires

## Etudes

1992-1999 Université de Lausanne  
Faculté de médecine

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1991-1992 Informatique ETHZ

1987-1991 Gymnase de Lugano

1987. Ecoles primaire et secondaire  
Agno

## Langues

Italien : langue maternelle  
Français : parlé et écrit couramment  
Anglais : bonnes connaissances  
Allemand : bonnes connaissances

## Activité professionnelle

6.2019 à aujourd'hui Médecin anesthésiste au cabinet (40%) et  
à la Clinique de la Prairie (20%)

6.2018 à aujourd'hui Médecin Agrée 20%  
Service d'anesthésiologie  
CHUV

6.2018 - 5.2019 Médecin anesthésiste  
Anesthesia Lausanne SA  
Clinique de Montchoisi

5-2013 -5.2018 Médecin Associé  
Service d'anesthésiologie  
Secteur Cardio-Thoracique et Vasculaire  
CHUV

5.2011-4.2013 Chef de clinique  
Co-responsable remplaçant Secteur Car-  
dio-Thoracique et Vasculaire

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CHUV

4.2007-4.2011

Chef de clinique  
Service d'anesthésiologie  
Centre interdisciplinaire des urgences  
(SMUR / REGA)  
CHUV

10.2004-03.2007

Médecin assistant  
Service d'anesthésiologie  
Centre interdisciplinaire des urgences  
(SMUR / REGA)  
CHUV

10.2003-09.2004

Médecin assistant  
Service d'anesthésiologie  
Hôpital de Morges

04.2003-09.2003

Médecin assistant  
Service d'anesthésiologie  
HUG

10.2001-03.2003

Médecin assistant  
Service d'anesthésiologie  
CHUV

10.2000-09.2001

Médecin assistant  
Urgences de chirurgie  
CHUV

12.1999-09.2000

Médecin assistant  
Service de cardiologie et médecine interne  
Clinique de Genolier

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## **Fonctions scientifiques ou techniques**

- Coresponsable du programme de la perfusion pulmonaire ex-vivo au CHUV.
- Coresponsable de la mise en place du projet institutionnel « Patient Blood Management ».
- Référant ERAS en chirurgie thoracique pour le service d'anesthésiologie.

## **Sociétés scientifiques**

- European Association of Echocardiography.
- European Association of Cardiothoracic Anesthesiologists.

## **Conférences sur invitation**

- Workshop sur la perfusion cérébrale et somatique non invasive RsO<sub>2</sub>, 2011, HUG, Genève :
  - Perfusion cérébrale lors d'endartériectomies carotidiennes sous anesthésie locorégionale.
- Conférence Iron Accademy, 2015, Palais de Beaulieu, Lausanne :
  - Préparation optimale du patient à une opération.
- Conférence AMACTI, 2016, Cardiocentro, Lugano :
  - Anestesia in chirurgia toracica, presente e perspettive per il futuro.
- Conférence AMACTI, 2018, Cardiocentro, Lugano :
  - Stomaco pieno e sequenza rapida : Quo Vadis del 2018.

## **Communications à des congrès**

- Best poster presentation, EACTA 2015, Göteborg.
- Prix Best poster Abstract, SSAR 2011, Interlaken.

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## **Publications**

### [Treatment with 3-aminobenzamide during ex vivo lung perfusion of damaged rat lungs reduces graft injury and dysfunction after transplantation](#)

Wang X, Parapanov R, Debonneville A, Wang Y, Abdelnour-Berchtold E, Gonzalez M, **Gronchi F**, Perentes JY, Ris HB, Eckert P, Piquilloud L, Lugrin J, Letovanec I, Krueger T, Liaudet L.

Am J Transplant 2019 Nov, DOI: [10.1111/ajt.15695](#)  
PMID 31710417

### [Blood CD9+ B cell, a biomarker of bronchiolitis obliterans syndrome after lung transplantation](#)

Brosseau C, Danger R, Durand M, Durand E, Foureau A, Lacoste P, Tissot A, Roux A, Reynaud-Gaubert M, Kessler R, Mussot S, Dromer C, Brugière O, Mornex JF, Guillemain R, Claustre J, Magnan A, Brouard S; COLT and SysCLAD Consortia.

Am J Transplant 2019 Nov; 19 (11), 3162-3175, DOI: [10.1111/ajt.15532](#)  
PMID 31305014

### [An enhanced recovery after surgery program for video-assisted thoracoscopic surgery anatomical lung resections is cost-effective](#)

Gonzalez M, Abdelnour-Berchtold E, Perentes JY, Doucet V, Zellweger M, Marcucci C, Ris HB, Krueger T, **Gronchi F**.

J Thorac Dis 2018 Oct, 10 (10), 5879-5888, DOI: [10.21037/jtd.2018.09.100](#)  
PMID 30505496 Free PMC article.

### [Blood Gene Expression Predicts Bronchiolitis Obliterans Syndrome.](#)

Danger R, Royer PJ, Reboulleau D, Durand E, Loy J, Tissot A, Lacoste P, Roux A, Reynaud-Gaubert M, Gomez C, Kessler R, Mussot S, Dromer C, Brugière O, Mornex JF, Guillemain R, Dahan M, Knoop C, Botturi K, Foureau A, Pison C, Koutsokera A, Nicod LP, Brouard S, Magnan A; COLT and SysCLAD Consortia.

Front Immunol. 2018 Jan 11;8:1841. doi: [10.3389/fimmu.2017.01841](#). eCollection 2017.  
PMID:29375549

### [Experimental ex vivo lung perfusion with sevoflurane: effects on damaged donor lung grafts.](#)

Wang X, Parapanov R, Francioli C, Perentes JY, Letovanec I, Gonzalez M, Kern C, Ris HB, Piquilloud L, Marcucci C, Krueger T, Liaudet L, **Gronchi F**.

Interact Cardiovasc Thorac Surg. 2018 Jun 1;26(6):977-984. doi: [10.1093/icvts/ivx438](#).  
PMID:29373667

### [Airway microbiota signals anabolic and catabolic remodeling in the transplanted lung.](#)

Mouraux S, Bernasconi E, Pattaroni C, Koutsokera A, Aubert JD, Claustre J, Pison C, Royer PJ, Magnan A, Kessler R, Benden C, Soccia PM, Marsland BJ, Nicod LP; SysCLAD Consortium.

J Allergy Clin Immunol. 2018 Feb;141(2):718-729.e7. doi: [10.1016/j.jaci.2017.06.022](#). Epub 2017 Jul 18.  
PMID:28729000

### [HeartMate 3 in Lowest INTERMACS Profile Cohort: The Swiss Experience.](#)

Tozzi P, Banfi C, Ahmadov K, Hullin R, Meyer P, Giraud R, Liaudet L, **Gronchi F**, Huber C, Kirsch M.

ASAIO J. 2017 Nov/Dec;63(6):752-758. doi: [10.1097/MAT.0000000000000589](#).  
PMID:28557861

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## [Interstitial fluid pressure: A novel biomarker to monitor photo-induced drug uptake in tumor and normal tissues.](#)

Cavin S, Wang X, Zellweger M, Gonzalez M, Bensimon M, Wagnières G, Krueger T, Ris HB, **Gronchi F**, Perentes JY.

Lasers Surg Med. 2017 Oct;49(8):773-780. doi: 10.1002/lsm.22687. Epub 2017 May 22.  
PMID:28544068

## [Pyrrolidine dithiocarbamate administered during ex-vivo lung perfusion promotes rehabilitation of injured donor rat lungs obtained after prolonged warm ischemia.](#)

Francioli C, Wang X, Parapanov R, Abdelnour E, Lugin J, **Gronchi F**, Perentes J, Eckert P, Ris HB, Piquilloud L, Krueger T, Liaudet L.

PLoS One. 2017 Mar 21;12(3):e0173916. doi: 10.1371/journal.pone.0173916. eCollection 2017.  
PMID:28323904

## [Extracorporeal total artificial heart as bailout surgery.](#)

Perrodin SF, Muller O, **Gronchi F**, Liaudet L, Hullin R, Kirsch M.

J Card Surg. 2017 Mar;32(3):222-228. doi: 10.1111/jocs.13110. Epub 2017 Feb 15. Review.  
PMID :28198093

## [Pharmacological Reconditioning of Marginal Donor Rat Lungs Using Inhibitors of Peroxynitrite and Poly \(ADP-ribose\) Polymerase During Ex Vivo Lung Perfusion.](#)

Wang X, Wang Y, Parapanov R, Abdelnour E, **Gronchi F**, Perentes JY, Piquilloud L, Ris HB, Letovanec I, Liaudet L, Krueger T.

Transplantation. 2016 Jul;100(7):1465-73. doi: 10.1097/TP.0000000000001183.  
PMID:27331361

## [A New Combined Technique Reducing the Risk of Paraplegia during Thoracoabdominal Aorta Replacement.](#)

Tozzi P, Pralong E, **Gronchi F**, Siniscalchi G.

Thorac Cardiovasc Surg. 2017 Mar;65(2):126-129. doi: 10.1055/s-0036-1579700. Epub 2016 Apr 6.  
PMID:27050813

## [Extracorporeal support for pulmonary resection: current indications and results.](#)

Roskopfova P, Perentes JY, Ris HB, **Gronchi F**, Krueger T, Gonzalez M.

World J Surg Oncol. 2016 Feb 2;14:25. doi: 10.1186/s12957-016-0781-0. Review.  
PMID:26837543

## [Treatment of pleural malignancies by photo-induction combined to systemic chemotherapy: Proof of concept on rodent lung tumors and feasibility study on porcine chest cavities.](#)

Wang X, **Gronchi F**, Bensimon M, Mercier T, Decosterd LA, Wagnières G, Debefve E, Ris HB, Letovanec I, Peters S, Perentes JY.

Lasers Surg Med. 2015 Dec;47(10):807-16. doi: 10.1002/lsm.22422. Epub 2015 Sep 28.  
PMID:26415084

## [Use of a ventricular septal defect occluder for apical closure in transapical aortic valve replacement.](#)

Ferrari E, Locca D, Berdajs D, Marcucci C, **Gronchi F**, Lavanchy J, Prêtre R, Tozzi P.

Innovations (Phila). 2015 Jan-Feb;10(1):68-70. doi: 10.1097/IMI.0000000000000118.  
PMID:25621876

## [The influence of drugs used in cardiac anaesthesia and critical care on multiple electrode ag-gregometry: an in-vitro volunteer study.](#)

Morisoli AP, **Gronchi F**, Ferrari E, Blanc C, Frascarolo P, Angelillo-Scherrer A, Marcucci C.

Eur J Anaesthesiol. 2014 Sep;31(9):499-504. doi: 10.1097/EJA.0000000000000113.  
PMID:25010745

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## [Surgical procedure in immunoglobulin G4-related ascending aortitis?](#)

Colombier S, Ruchat P, Gronchi F, Prêtre R, Niclauss L.  
Ann Thorac Surg. 2014 Apr;97(4):e111-3. doi: 10.1016/j.athoracsur.2013.11.074.  
PMID:24694451

## [Prediction of chronic lung allograft dysfunction: a systems medicine challenge.](#)

Pison C, Magnan A, Botturi K, Sève M, Brouard S, Marsland BJ, Ernst F, Paprotka T, Deplanche K, Fritz A, Siroux V, Boissel JP, Corris PA, Auffray C, Nicod LP; SysCLAD consortium.  
Eur Respir J. 2014 Mar;43(3):689-93. doi: 10.1183/09031936.00161313. No abstract available.  
PMID:24585866

## [Validation of rotational thromboelastometry during cardiopulmonary bypass: A prospective, observational in-vivo study.](#)

**Gronchi F**, Perret A, Ferrari E, Marcucci CM, Flèche J, Crosset M, Schoettker P, Marcucci C.  
Eur J Anaesthesiol. 2014 Feb;31(2):68-75. doi: 10.1097/EJA.0b013e328363171a.  
PMID:23867776

## [Impact of induction therapy on airway complications after sleeve lobectomy for lung cancer.](#)

Gonzalez M, Litzistorf Y, Krueger T, Popeskou SG, Matzinger O, Ris HB, **Gronchi F**, Lovis A, Peters S.  
Ann Thorac Surg. 2013 Jul;96(1):247-52. doi: 10.1016/j.athoracsur.2013.04.009. Epub 2013 May 16.  
PMID:23684158

## [Active mitral ring for post-surgical remote correction of residual mitral regurgitation on the beating heart.](#)

Tozzi P, Locca D, **Gronchi F**, Hayoz D, Ferrari E, von Segesser LK, Hullin R.  
Eur J Cardiothorac Surg. 2013 Aug;44(2):370-4; discussion 374. doi: 10.1093/ejcts/ezs710. Epub 2013 Feb 5.  
PMID:23386714

## [Transapical aortic valve replacement in extreme-risk patients: outcome, risk factors and mid-term results.](#)

Ferrari E, Namasivayam J, Marcucci C, **Gronchi F**, Berdajs D, Niclauss L, von Segesser LK.  
Eur J Cardiothorac Surg. 2013 May;43(5):978-85. doi: 10.1093/ejcts/ezs458. Epub 2012 Aug 11.  
PMID:22885336

## [Transapical aortic valve replacement through a chronic apical aneurysm.](#)

Ferrari E, **Gronchi F**, Qanadli SD, von Segesser LK.  
Interact Cardiovasc Thorac Surg. 2012 Mar;14(3):367-9. doi: 10.1093/icvts/ivr039. Epub 2011 Dec 7.  
PMID:22159241

## [Transient femoral neuropathy after knee ligament reconstruction and nerve stimulator-guided continuous femoral nerve block: a case series.](#)

Albrecht E, Niederhauser J, **Gronchi F**, Löcherbach C, Kombot C, Rossat J, Gilliard N, Kuntzer T.  
Anaesthesia. 2011 Sep;66(9):850-1. doi: 10.1111/j.1365-2044.2011.06836.x. No abstract available.  
PMID:21831093

## [Comparison of porcine and human coagulation by thrombelastometry.](#)

Kessler U, Grau T, **Gronchi F**, Berger S, Brandt S, Bracht H, Marcucci C, Zachariou Z, Jakob SM.  
Thromb Res. 2011 Nov;128(5):477-82. doi: 10.1016/j.thromres.2011.03.013. Epub 2011 Apr 13.  
PMID:21492909

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## Articles originaux non indexés

S. Grape, **F. Gronchi**, P. Ravussin, L. Steiner, C. Kern. 'Monitoring de l'oxygène et du dioxyde de carbone en anesthésie et en réanimation' dans le traité EMC 'Anesthésie-Réanimation', 9.2011

## Chapitres de livres, monographies

1. Perioperative coagulation in cardiovascular surgery. **Gronchi F.**, Ranucci M. Dans : Perioperative hemostasis – Coagulation for anesthesiologists. Editeurs Marcucci C, Schoettker P. Springer Verlag. 7.2014.
2. Poster Société Suisse Anesthésie et Réanimation (SSAR) 2011: Evaluation of the feasibility of rotational thromboelastometry during cardiopulmonary bypass (CPB) using a heparinase modified ROTEM® assay. **Gronchi F.**, Perret A., Sulzer C., Ferrari E., Kern C., Marcucci C.
3. Poster European Society of Anesthesiology (ESA) 2013: Postoperative low aspirin response in vascular surgery: a pilot study. Fabienne Hadorn, Carlo Marcucci, Céline Dubuis, **Fabrizio Gronchi**
4. Poster The International society for Heart & Lung Transplantation (ISHLT) 2014: Experimental ex vivo lung perfusion (EVLN) of donor lungs inoculated with streptococcus pneumoniae. Abdelnour E., Wang X., Wang Y., Parapanov R., **Gronchi F.**, Durussel C., Perentes Y., Gonzales M., Ris H.B., Liaudet L., Greub G., Krueger T.
5. Poster The International society for Heart & Lung Transplantation (ISHLT) 2014: Functional Assessment of Variably Damaged Lung Grafts in a Novel Rodent Model of Ex vivo Lung Perfusion (EVLN). Wang Y., Wang X., Abdelnour E., Parapanov R., **Gronchi F.**, Perentes Y., Gonzales M., Ris H.B., Liaudet L., Krueger T.
6. Poster EACTA 2015: Experimental Ex-vivo Lung Perfusion with Sevoflurane: Effect on Damaged Donor Lung Grafts. Xingyu Wang, Roumen Parapanov, Cyril Francioli, Jean Yannis Perentes, Christian Kern, Hans-Beat Ris, Carlo Marcucci, Thorsten Krueger, Lucas Liaudet, and **Gronchi F.**



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7. Poster European Society of Thoracic Surgeons (ESTS) 2015: Pretracheal paraganglioma: a rare surgical challenge. Petra Rosskopfova, Piergiorgio Tozzi, Jean Yannis Perentes, Thorsten Krueger, **Fabrizio Gronchi**, Hans-Beat Ris, Michel Gonzalez
8. Poster European Society of Thoracic Surgeons (ESTS) 2016: Pharmacological inhibition of poly(ADP-ribose)polymerase (PARP) during experimental ex-vivo lung perfusion (EVLPE) reduces ischemia-reperfusion injury and improves function of transplanted lung grafts. Xingyu Wang, Roumen Parapanov, Petra Rosskopfova, Letovanec Igor, **Fabrizio Gronchi**, Michel Gonzalez, Jean Perentes, Lise Piquilloud, Lucas Liaudet, Thorsten Krueger
9. Poster Société Suisse de Chirurgie Cardiaque et Vasculaire Thoracique (SSCC) 2016: The heartless patient: a homemade total extracorporeal heart as bailout surgery. Stéphanie Perrodin, Olivier Muller, **Fabrizio Gronchi**, Matthias Kirsch
10. Poster European Society of Thoracic Surgeons (ESTS) 2018: Outcome of patients with lung re-transplantation requiring preoperative extracorporeal membrane oxygenation. Etienne Abdelnour-Berchtold, M. Gonzalez, J. Bellier, D. Wurlod, H. Ris, L. Piquilloud-Imboden, C. Marcucci, **F. Gronchi**, L. Nicod, J. Aubert, T. Krueger