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Dr. Petronela Ancuta

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Sex: Female

Date of Birth: 5/09

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Protected when completed

Dr. Petronela Ancuta

Language Skills

Language	Read	Write	Speak	Understand
English	Yes	Yes	Yes	Yes
French	Yes	Yes	Yes	Yes
Romanian; Moldavian; Moldovan	Yes	Yes	Yes	Yes

User Profile

Disciplines Trained In: Immunology, Virology

Research Disciplines: Immunology, Virology

Areas of Research: AIDS / HIV, Chronobiology, Immune Mediators: Cytokines and Chemokines, Immune System, Susceptibility Genes

Fields of Application: Biomedical Aspects of Human Health, Pathogenesis and Treatment of Diseases

Research Specialization Keywords: CD4+ T lymphocytes, cell differentiation, circadian clock machinery, cytokines/chemokines, HIV reservoirs, immune activation, mechanistic target of rapamycin (mTOR), mucosal immunity, systems biology, T helper 17 cells (Th17)

Degrees

2001/1 - 2006/5	Post-doctorate, Post-doctorate, Immunology and Virology, Harvard Medical School Degree Status: Completed Supervisors: Pr. Dana Gabuzda (Dana-Farber Cancer Institute)
1996/12 - 2000/10	Doctorate, Diplome de Docteur, Immunology, Université de Paris XI (Paris-Sud) Degree Status: Completed Supervisors: Dr. Nicole Haeffner-Cavaillon
1998/3 - 1998/6	Diploma, Postgraduate Certification in Immunology, Immunology, Institut Pasteur Degree Status: Completed Supervisors: Dr. Jean-Marc Cavaillon
1995/10 - 1996/7	Master's Equivalent, Diplome d'Etudes Approfondies en Immunologie/Biochimie, Immunology, Université de Paris XI (Paris-Sud) Degree Status: Completed Supervisors: Dr. Richard Chaby

- 1991/9 - 1992/7 Master's Equivalent, Diploma de License, Medical Biology, University of Bucharest
Degree Status: Completed
Supervisors: Dr. Carmen Strungaru
- 1983/9 - 1987/7 Diploma, Diploma in Nursing - Registered Nurse, Nursing, Lycee Sanitaire Bacau, Roumanie
Degree Status: Completed
Supervisors: Teacher Dumitra Apostu

Credentials

- 2008/3 - 2008/6 Postgraduate Certification in Advanced Immunology. Completed with honors., Institut Pasteur

Recognitions

- 2010/7 - 2012/12 Chercheur Boursier Junior 2 - 138,929 (Canadian dollar)
Fonds de recherche du Québec - Santé (FRQS)
Prize / Award
- 2007/7 - 2010/6 New Investigator INSERM, France (France-Canada collaboration) - 180,000 (Euro)
Institut national de la santé et de la recherche médicale
Prize / Award
- 2006/7 - 2008/6 Chercheur Boursier Junior 1 (second year declined) - 90,000 (Canadian dollar)
Fonds de recherche du Québec - Santé (FRQS)
Prize / Award
- 2000/12 - 2001/1 Post-Doctoral Award SIDACTION, France - 4,000 (Euro)
SIDACTION (The French AIDS Charity Program)
Prize / Award
- 1999/12 - 2000/11 PhD Fellowship SIDACTION, France - 19,200 (Euro)
SIDACTION (The French AIDS Charity Program)
Prize / Award

Employment

- 2020/1 Full Professor - permanent position (Professeure titulaire)
Département de Microbiologie, infectiologie et immunologie, Faculté de médecine, Université de Montréal
- 2017/6 Full Professor (Professeure sous octroi titulaire)
Département de Microbiologie, infectiologie et immunologie, Faculté de Médecine, Université de Montréal
- 2011/6 Associate Professor (Professeur sous octroi agrégé)
Microbiologie, Infectiologie et immunologie, Faculte de Medecine, Université de Montréal
- 2011/6 Associate Researcher (chargé de recherche niveau 1, CR1) at INSERM U1112, Paris, France - Permanent position obtained based on a highly competitive international competition (position declined)
Institut national de la santé et de la recherche médicale
- 2006/6 Researcher
Insulte tissulaire, infection, immunité et inflammation, Centre de recherche du CHUM, Centre hospitalier de l'Université de Montréal

2006/7 - 2011/5	Assistant Professor (Professeur sous octroi adjoint) Microbiologie et immunologie, Faculte de Medecine, Université de Montréal
2001/1 - 2006/5	Post-Doctoral Fellow Dana-Farber Cancer Institute Cancer Immunology and AIDS, Harvard Medical School, Harvard Medical School
2000/12 - 2001/1	Post-Doctoral Fellow INSERM - Human ImmunoPathology, Universite de Paris Sud, Institut national de la santé et de la recherche médicale
1996/12 - 2000/10	PhD Student INSERM - Human ImmunoPathology, Universite de Paris Sud, Université de Paris XI (Paris-Sud)
1995/10 - 1996/7	Master Degree Student CNRS - Équipe Endotoxines, Universite de Paris Sud, Université de Paris XI (Paris-Sud)
1994/10 - 1995/5	TEMPUS fellow CNRS - Équipe Endotoxines, Universite de Paris Sud, Université de Paris XI (Paris-Sud)
1992/8 - 1994/9	Research Assistant Institut de Recherche - Animal Physiology, Universite de Bucarest, University of Bucharest

Affiliations

The primary affiliation is denoted by (*)

(*) 2017/6	Full Professor (Assistant Professor 2006-2011; Associate Professor 2011-2017), Université de Montréal
2011/6 - 2017/5	Associate Professor, Université de Montréal
2006/6 - 2011/5	Assistant Professor, Université de Montréal

Leaves of Absence and Impact on Research

2012/2 - 2012/7	Parental, Centre hospitalier de l'Université de Montréal My son is born February 20th, 2012. I took maternity/parental leave for 6 months between February and July 2012.
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Research Funding History

Awarded [n=9]

2021/10 - 2025/9 Principal Applicant	The Th17 Master Regulator RORC2 as a New Target for HIV Immune Therapy and Cure Strategy Co-applicant : Ariberto Fassati; Elie Haddad; Eric Cohen; Jean-Pierre Routy; Tomas Raul Wiche Salinas; Tram Pham Funding Sources: 2021/10 - 2025/9 Canadian Institutes of Health Research (CIHR) Project Grant / Subvention Proje Total Funding - 887,400 (Canadian dollar) Funding Competitive?: Yes
2019/4 - 2024/3 Principal Applicant	Targeting the interplay between myeloid cells and CD4+ T-cells for HIV cure (my lab receives 100,000 CAD per year for 5 years) Principal Applicant : Eric Cohen - Designated PA; Theme 1 co-leader: Nicolas Chomont; Theme 1 co-leader: Thomas Murooka; Theme 2 co-leader: Jerome Estaquier; Theme 2

co-leader: Petronela Ancuta; Theme 3 co-leader: Jean-Pierre Routy; Theme 3 co-leader: Jonathan Angel

Funding Sources:

2019/1 - 2024/1 Canadian Institutes of Health Research (CIHR)
HIV/AIDS Biomedical and Clinical Research Team Grants
Total Funding - 6,000,000 (Canadian dollar)
Funding Competitive?: Yes

2017/4 - 2022/3
Principal Applicant

Exploring the role of the circadian clock in regulating HIV replication and viral reservoir reactivation in Th17 cells

Co-applicant : Brendan Bell; Eric Cohen; Jean-Pierre Routy; Nicolas Cermakian

Funding Sources:

2017/4 - 2022/3 Canadian Institutes of Health Research (CIHR)
Project Grant
Total Funding - 772,650 (Canadian dollar)
Funding Competitive?: Yes

2021/4 - 2022/3
Principal Applicant

The Th17 Master Regulator RORC2 as a New Target for HIV Immune Therapy and Cure Strategy - Bridge funding

Co-applicant : Ariberto Fassati; Elie Haddad; Eric Cohen; Jean-Pierre Routy

Funding Sources:

2021/3 - 2021/4 Canadian Institutes of Health Research (CIHR)
Infection and Immunity
Total Funding - 100,000 (Canadian dollar)
Funding Competitive?: Yes

2021/4 - 2022/3
Principal Applicant

HIV Reservoir Persistence in HCV-specific CD4 T Cells: Effects of DAA-Mediated HCV Cure - CanCURE Catalyst Funding

Co-applicant : Naglaa Shoukry; Samaa T Gobran

Funding Sources:

2021/4 - 2022/3 Canadian Institutes of Health Research (CIHR)
Total Funding - 50,000 (Canadian dollar)
Funding Competitive?: Yes

2017/1 - 2021/12
Co-applicant

Exploring the role of IL-32 as a potential biomarker and therapeutic target in premature cardio-vascular diseases during HIV-infection (my lab receives 40,000 USD per year)

Co-applicant : Alan Landay; Mohamed El-Far; Nicolas Chomont;

Principal Applicant : Cécile Tremblay

Funding Sources:

2016/9 - 2021/6 National Institutes of Health (NIH) (USA)
R01
Total Funding - 2,102,077 (United States dollar)
Funding Competitive?: Yes

2018/11 - 2020/11
Principal Applicant

Th17 Master Regulator RORgt as a New Target for HIV Immune Therapy and Cure Strategy (my lab will receive 270,000\$ total for 2 years)

Co-applicant : Ariberto Fassati;

Collaborator : Ellie Haddad; Eric Cohen; Jean-Pierre Routy

Funding Sources:

2018/11 - 2020/11 Glaxo Wellcome Inc.
GSK and NeoMed Discovery Fund to Accelerate Novel Science and Technologies in Quebec
Total Funding - 400,000 (Canadian dollar)
Funding Competitive?: Yes

2011/8 - 2020/7 Banque de tissu muqueux des sujets VIH+ (my lab receives 15,000 CaD per year)

Principal Applicant

Co-investigator : Jean-Pierre Routy

Funding Sources:

2011/8 - 2019/7 Fonds de la Recherche en Santé du Québec (FRSQ)
Réseau FRSQ SIDA-Maladies infectieuses
Total Funding - 105,000 (Canadian dollar)
Funding Competitive?: No

2019/6 - 2020/5 Cellules dendritiques RALDH2+ et persistance des réservoirs du VIH dans les cellules T CD4+ réactives/spécifiques aux bactéries/champignons

Principal Applicant

Co-applicant : Amélie Cattin, Ph.D. Student; Dr. Jean-Pierre Routy, M.D.

Funding Sources:

2018/7 - 2019/6 Fonds de recherche du Québec - Santé (FRQS)
HIV/AIDS and Infectious Diseases Network of FRQS
Total Funding - 15,000 (Canadian dollar)
Funding Competitive?: Yes

Completed [n=6]

2014/4 - 2019/3 Team Grant: Canadian Initiative for HIV Cure Research. Pediatric HIV infection: exploring determinants of a functional cure. (my lab receives no funding from this grant)

Collaborator

Principal Applicant : Hugo Soudeyans

Funding Sources:

2014/1 - 2018/12 Canadian Institutes of Health Research (CIHR)
Team Grant: Canadian Initiative for HIV Cure Research
Total Funding - 2,000,000 (Canadian dollar)
Funding Competitive?: Yes

2014/4 - 2019/3 The Canadian HIV Cure Enterprise (CanCURE; designated PA: Eric Cohen) (my lab receives 95,000 CaD per year)

Principal Applicant

Principal Applicant : Dr. Andrew Mouland; Dr. Eric Cohen; Dr. Jean-Pierre Routy; Dr. Jerome Estaquier; Dr. Jonathan Angel; Dr. Keith Fowke; Dr. Mario Ostrowski; Dr. Michel Tremblay; Dr. Petronela Ancuta

Funding Sources:

2014/4 - 2019/3 Canadian Institutes of Health Research (CIHR)
HIV eradication
Total Funding - 8,769,071 (Canadian dollar)
Funding Competitive?: Yes

2017/6 - 2018/11 Locking out HIV from CD4 T cells: A pilot study of the impact of anti a4b7 antibody (vedolizumab) on viral control following analytical treatment interruption (my laboratory received no funding from this grant)

Co-applicant

Co-applicant : Daniel Kaufmann; Nicolas Chomont;

Principal Applicant : Cécile L. Tremblay; Jean-Pierre Routy

Funding Sources:

2017/6 - 2018/11 Canadian Institutes of Health Research (CIHR)
 Operating Grant: Innovative Biomedical and Clinical HIV/AIDS
 Research / Sub de fonctionnement: Reche
 Total Funding - 249,000 (Canadian dollar)
 Funding Competitive?: Yes

2017/6 - 2018/11 Targeting mTOR to restore mucosal immunity toward remission in HIV-infected individuals
 Principal Applicant (my laboratory received 250,000\$)

Co-applicant : Jean-Pierre Routy

Funding Sources:

2017/6 - 2018/11 Canadian Institutes of Health Research (CIHR)
 Operating Grant: Innovative Biomedical and Clinical HIV/AIDS
 Research / Sub de fonctionnement: Reche
 Total Funding - 250,000 (Canadian dollar)
 Funding Competitive?: Yes

2013/1 - 2017/12 Determinants of increased risk of cardio-vascular diseases in HIV-infected individuals (my
 Co-applicant lab received 40,000 CaD per year for 2013, 2016 and 2017; 120,000\$ total)

Principal Applicant : Dr. Cecile Tremblay

Funding Sources:

2013/1 - 2017/12 Canadian Institutes of Health Research (CIHR)
 Team grant HIV AIDS comorbidities
 Total Funding - 2,500,000 (Canadian dollar)
 Funding Competitive?: Yes

2016/5 - 2017/4 Diurnal variations in HIV-1 reservoir size and latency reversal potential in circulating CD4+
 Principal Applicant T cells and monocytes: implication in eradication of HIV reservoirs

Co-applicant : D. Jean-Pierre Routy; Dr. Yuwei Zhang

Funding Sources:

2016/6 - 2017/5 CIHR CanCURE
 Pilot Grant
 Total Funding - 25,000 (Canadian dollar)
 Funding Competitive?: Yes

Under Review [n=2]

2022/4 - 2027/3 Prediction of Premature Aging Phenotypes (PAP) in HIV infection by the proinflammatory
 Co-applicant cytokine IL-32.

Co-applicant : Alan Landay; Madeleine Durand; Mohamed El-Far; Nicolas Chomont;

Principal Applicant : Cecile Tremblay

Funding Sources:

2022/4 - 2027/3 Canadian Institutes of Health Research (CIHR)
 Total Funding - 2,255,000 (Canadian dollar)
 Funding Competitive?: Yes

2021/9 - 2026/8 Prediction of Premature Aging Phenotypes (PAP) in HIV infection by the proinflammatory
 Co-investigator cytokine IL-32.

Co-applicant : Alan Landay; Madeleine Durand; Mohamed El-Far; Nicolas Chomont;
Robert Kaplan;

Principal Applicant : Cécile Tremblay

Funding Sources:

2022/1 - 2027/1 National Institutes of Health (NIH) (USA)
Aging
Total Funding - 5,000,000 (United States dollar)
Funding Competitive?: Yes

Student/Postdoctoral Supervision

Bachelor's [n=6]

- Principal Supervisor Krystelle Abalovi (Completed) , Université de Montréal
Student Degree Start Date: 2016/5
Student Degree Received Date: 2017/5
Project Description: Initiation to research; COPSE fellowship (delays relative to medical leave)
Present Position: Bachelor's
- Principal Supervisor Elias Salem (Completed) , Université de Montréal
Student Degree Start Date: 2016/5
Student Degree Received Date: 2016/6
Project Description: Initiation to research
Present Position: Bachelor's
- Principal Supervisor Rindra Rakotonarivo (Completed) , Université de Montréal
Student Degree Start Date: 2016/5
Student Degree Received Date: 2016/6
Project Description: Initiation to reasearch
Present Position: Bachelor's
- Principal Supervisor Rosa Pion (Completed) , Université de Montréal
Student Degree Start Date: 2014/7
Project Description: Research initiation (COPSE fellowship)
Present Position: MSc Student
- Principal Supervisor Patrick Benoit (Completed) , UdeM
Student Degree Start Date: 2013/6
Student Degree Received Date: 2013/8
Project Description: Initiation to Research
- Principal Supervisor Sydne Giselle Guevara (Completed) , Colombie
Student Degree Start Date: 2013/5
Student Degree Received Date: 2013/7

Bachelor's Equivalent [n=20]

- Principal Supervisor Nathalie Jiang (Completed) , Université de Montréal
Student Degree Start Date: 2018/6
Student Degree Received Date: 2018/7
Project Description: One month summer training - Initiation to research
Present Position: B.Sc., Université de Montréal

- Principal Supervisor Alessandro Modica (Completed) , Université de Montréal
 Student Degree Start Date: 2018/6
 Student Degree Received Date: 2018/7
 Project Description: MCB3091 - Stage en milieu de recherche
 Present Position: B.Sc., Université de Montréal
- Principal Supervisor Katayoune Shahbazkia (Completed) , France
 Student Degree Start Date: 2017/7
 Student Degree Received Date: 2017/8
 Project Description: Research initiation - summer training
 Present Position: France
- Principal Supervisor Iason Papadopolous (Completed) , Greece
 Student Degree Start Date: 2017/7
 Student Degree Received Date: 2017/8
 Project Description: Research initiation - summer trainingIFMSA - international medical student
 Present Position: Greece
- Principal Supervisor Pedro Custodio (Completed) , Portugal
 Student Degree Start Date: 2017/7
 Student Degree Received Date: 2017/8
 Project Description: Research initiation - summer trainingIFMSA - international medical student
 Present Position: Portugal
- Principal Supervisor Dragos Vlad (Completed) , Université Laval
 Student Degree Start Date: 2016/6
 Student Degree Received Date: 2016/8
 Project Description: Initiation to research
 Present Position: Medical Student
- Principal Supervisor Mathilde Savall (Completed) , U de Toulouse, France
 Student Degree Start Date: 2013/6
 Student Degree Received Date: 2013/8
 Project Description: Initiation to Research
- Principal Supervisor Ahmed BADRELDIN (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2013/5
 Student Degree Received Date: 2013/7
 Project Description: Initiation to Research
 Present Position: MSc Student
- Principal Supervisor Wiche Salinas Tomas (Completed) , Peru
 Student Degree Start Date: 2012/12
 Student Degree Received Date: 2013/3
 Project Description: Initiation to Research
- Principal Supervisor Orschel Marie (Completed) , U of Dresden
 Student Degree Start Date: 2011/9
 Student Degree Received Date: 2011/10
 Project Description: One month research training - IFMSA Exchange program U de Montreal
 Present Position: Medical Student

- Principal Supervisor Hereng Ophélie (Completed) , U Versailles
 Student Degree Start Date: 2011/7
 Student Degree Received Date: 2011/8
 Project Description: one month research training - IFMSA Exchange program U de Montreal
 Present Position: Medical Student
- Principal Supervisor Elfekhfakh Marwan (Completed) , U de Montreal
 Student Degree Start Date: 2011/6
 Student Degree Received Date: 2011/7
 Project Description: two months research training - IFMSA Exchange program U de Montreal
 Present Position: Medical Student
- Principal Supervisor Wiche Salinas Tomas (Completed) , Peru
 Student Degree Start Date: 2011/1
 Student Degree Received Date: 2011/2
 Project Description: one month research training - IFMSA Exchange program U de Montreal
 Present Position: Medical Student
- Principal Supervisor Akyýldýz Can (Completed) , Turkey
 Student Degree Start Date: 2010/8
 Student Degree Received Date: 2010/9
 Project Description: one month research training - IFMSA Exchange program U de Montreal
 Present Position: Medical Student
- Principal Supervisor Bernier Annie (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2010/7
 Student Degree Received Date: 2010/9
 Project Description: Initiation to Immunology and Virology techniques (2 months summer training)
 Present Position: Ph.D. student McGill University
- Principal Supervisor Stanaeva Kamelia (Completed) , Bulgaria
 Student Degree Start Date: 2009/8
 Student Degree Received Date: 2009/9
 Project Description: one month research training - IFMSA Exchange program U de Montreal
 Present Position: Medical Student
- Principal Supervisor Caha Milos (Completed) , Czech Republic
 Student Degree Start Date: 2009/7
 Student Degree Received Date: 2009/8
 Project Description: one month research training - IFMSA Exchange program U de Montreal
 Present Position: Medical Student
- Principal Supervisor Dextras Paquette Patrick (Completed) , U de Sherbrooke
 Student Degree Start Date: 2009/5
 Student Degree Received Date: 2009/7
 Project Description: 3 months summer training in research techniques
 Present Position: Undergrad Student

Principal Supervisor Sue Wacleche Vanessa (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2007/7
 Student Degree Received Date: 2007/9
 Project Description: Initiation to Immunology and Virology techniques (2 months summer training)
 Present Position: Ph.D. student

Principal Supervisor Moreau Hélène (Completed) , École Normale Supérieure, France
 Student Degree Start Date: 2007/6
 Student Degree Received Date: 2007/8
 Project Description: 2 months summer training in research techniques
 Present Position: BSc Student

Master's Equivalent [n=1]

Principal Supervisor Alexandre Verdier (Completed) , Faculté de Pharmacie de Paris V, Paris, France
 Student Degree Start Date: 2018/6
 Student Degree Received Date: 2018/8
 Project Description: 2 months Master 1 (M1) - Research training
 Present Position: M.Sc. Student France

Master's Thesis [n=12]

Principal Supervisor Jonathan Dias (In Progress)
 Student Degree Start Date: 2019/9
 Student Degree Expected Date: 2021/8

Principal Supervisor Yasmine Smail (Completed) , Ecole Normale Supérieure (France)
 Student Degree Start Date: 2017/2
 Student Degree Received Date: 2017/6
 Project Description: Role of Aryl hydrocarbon receptor in immunity and HIV-1 replication - the use of CRISPR-Cas9 (international mobility for Master's 2 degree research training - 5 months)
 Present Position: France

Principal Supervisor Tomas Raul Wiche Salinas (Completed)
 Student Degree Start Date: 2015/10
 Student Degree Received Date: 2016/8

Principal Supervisor Julia Niessl (Completed) , UdeM/CRCHUM/Nurnberg University, Germany
 Student Degree Start Date: 2014/2
 Student Degree Received Date: 2014/12
 Project Description: Identification of new naive precursors for Th17 cells: relevance for HIV infection
 Present Position: Ph.D student CRCHUM

Principal Supervisor Stéphane Saitta (Completed) , UdeM/CRCHUM/Université de Toulouse, France
 Student Degree Start Date: 2014/1
 Student Degree Received Date: 2014/7
 Project Description: Role of the CLOCK machinery in regulating Th17 polarization and HIV permissiveness
 Present Position: Research Assistant - France

- Principal Supervisor Sylvia Pouvreau (Completed) , UdeM/CRCHUM/Université de la Sorbonne, France
 Student Degree Start Date: 2014/1
 Student Degree Received Date: 2014/9
 Project Description: Alterations in the Th17 polarization potential linked to the loss of virologic control in HIV+ elite controllers
 Present Position: Technicien Caprion/Immunecarta
- Co-Supervisor Pascale Kouassi (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2013/1
 Student Degree Received Date: 2015/10
 Project Description: Immunological mechanisms linked to premature ageing during HIV infection
 Present Position: Industry
- Principal Supervisor Tevy-Suzy TEP (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2013/1
 Student Degree Received Date: 2015/10
 Project Description: HIV and autophagy: impact on the ability of dendritic cells to present antigen and trans infect CD4+ T-cells
 Present Position: Clinical Research Associate
- Principal Supervisor Delphine Planas (Completed) , UdeM/CRCHUM/Université de Toulouse, France
 Student Degree Start Date: 2013/1
 Student Degree Received Date: 2013/7
 Project Description: A systems biology approach toward the identification of new HIV permissiveness factors modulated by all-trans retinoic acid in CD4+ T-cells expressing the Th17 marker CCR6
 Present Position: Ph.D. Student in my lab
- Principal Supervisor Bernier Annie (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2010/9
 Student Degree Received Date: 2013/1
 Project Description: Role of PPAR γ in the negative control of HIV replication
 Present Position: Ph.D. student McGill University
- Principal Supervisor Touil Hanane (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2009/9
 Student Degree Received Date: 2012/1
 Project Description: Crosstalk between Th17 cells and epithelial cells in HIV-1 pathogenesis
 Present Position: Ph.D. student McGill University
- Principal Supervisor Wacleche Sue Vanessa (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2007/9
 Student Degree Received Date: 2010/9
 Project Description: Role of the chemokine network in T-cell mediated immunity and HIV-1 pathogenesis
 Present Position: PDF candidate
- Doctorate [n=12]**
- Co-Supervisor Edwin Caballero (In Progress) , McGill University
 Student Degree Start Date: 2020/1
 Student Degree Expected Date: 2024/12
 Present Position: Ph.D. Student Dr Cecilia Costiniuk Lab

Co-Supervisor	<p>Iury Amâncio Paiva (Completed) , Fiocruz Institute, Rio De Janeiro, Brazil Student Degree Start Date: 2020/1 Student Degree Received Date: 2020/5 Present Position: visiting Ph.D. student in my lab</p>
Principal Supervisor	<p>Jonathan Dias (In Progress) , Université de Montréal / CRCHUM Student Degree Start Date: 2019/9 Student Degree Expected Date: 2021/9 Present Position: M.Sc. student in my lab</p>
Co-Supervisor	<p>Samaa Gobran (In Progress) , Université de Montréal / CRCHUM Student Degree Start Date: 2019/9 Student Degree Expected Date: 2023/8 Present Position: Ph.D. student in my lab</p>
Principal Supervisor	<p>Christ-Dominique Ngassaki-Yoka (In Progress) , Université de Montréal / CRCHUM Student Degree Start Date: 2018/9 Student Degree Expected Date: 2023/8 Project Description: The circadian clock of HIV infection Present Position: Ph.D. Student in my lab</p>
Principal Supervisor	<p>Augustine Fert (In Progress) , Université de Montréal / CRCHUM Student Degree Start Date: 2018/3 Student Degree Expected Date: 2013/2 Project Description: Exploring the role of mTOR and RORC as new therapeutic targets in controlling HIV persistence during antiretroviral therapy Present Position: Ph.D. Student in my lab</p>
Principal Supervisor	<p>Etiene Moreira (In Progress) , Université de Montréal / CRCHUM Student Degree Start Date: 2018/3 Student Degree Expected Date: 2023/2 Project Description: Role of IL-32 isoforms in cardiovascular disease development during treated HIV infection Present Position: Ph.D. Student in my lab</p>
Co-Supervisor	<p>Natalia Fonseca do Rosario (Completed) , Fiocruz Institute, Rio De Janeiro, Brazil Student Degree Start Date: 2017/6 Student Degree Received Date: 2018/7 Project Description: Role of TCF4 in the regulation of dendritic cell pathogenicity during HIV infection Present Position: visiting Ph.D. student from Brazil</p>
Principal Supervisor	<p>Tomas Raul Wiche Salinas (In Progress) , Université de Montréal / CRCHUM Student Degree Start Date: 2016/9 Student Degree Expected Date: 2021/9 Project Description: Immunological markers for mucosal alterations and premature aging in HIV-infected subjects (predoctoral exam successfully passed in April 2018) Present Position: PhD Student in my lab (PDF accepted - Emory School of Medicine, Atlanta, GA, USA)</p>
Principal Supervisor	<p>Amélie Cattin (In Progress) , Université de Montréal / CRCHUM Student Degree Start Date: 2015/9 Student Degree Expected Date: 2020/9 Project Description: Contribution of myeloid cells to HIV persistence under antiretroviral therapy (predoctoral exam successfully passed in December 2017) Present Position: PDF Merck Research Laboratories, Boston, MA, USA</p>

- Principal Supervisor Delphine Planas (Completed) , Université de Montréal / CRCHUM
 Student Degree Start Date: 2014/1
 Student Degree Received Date: 2019/6
 Project Description: Identification of new HIV permissiveness factors modulated by retinoic acids in CCR6+ T-cells (thesis defense planned for April 2019)
 Present Position: PDF Pasteur Institute, Paris, France
- Principal Supervisor Vanessa Sue Wacleche (Completed) , Université de Montréal / CRCHUM
 Student Degree Start Date: 2010/7
 Student Degree Received Date: 2016/8
 Project Description: Molecular determinants of HIV pathogenicity in Th17 cells and CD16+ monocyte-derived dendritic cells
 Present Position: PDF Harvard Medical School

Post-doctorate [n=6]

- Principal Supervisor Debashree Chatterjee (In Progress) , Université de Montréal / CRCHUM
 Student Degree Start Date: 2017/9
 Student Degree Expected Date: 2020/8
 Project Description: The circadian clock of HIV persistence
 Present Position: RA at the CRCHUM (Dr Finzi Lab)
- Principal Supervisor Huicheng Chen (Completed) , Université de Montréal
 Student Degree Start Date: 2015/12
 Student Degree Received Date: 2016/12
 Project Description: Exploring the role of Th17-specific nuclear receptors in regulating HIV replication
 Present Position: Assistant professor/Researcher in China
- Principal Supervisor Yuwei Zhang (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2014/7
 Student Degree Received Date: 2017/9
 Project Description: Role of the circadian clock machinery in the regulation of effector functions and HIV replication in Th17 cells
 Present Position: Research Scientist, Immunotherapy Platform, MD Anderson Cancer Center, TX, USA
- Principal Supervisor Da Fonseca Sandrina (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2012/1
 Student Degree Received Date: 2014/6
 Project Description: Mechanisms of Th17 deficiency during HIV infection: paucity of naive Th17 precursors
 Present Position: Scientist - Caprion/ImmuneCarta
- Principal Supervisor Cleret-Buhot Aurélie (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2011/3
 Student Degree Received Date: 2013/8
 Project Description: A Systems Biology Approach Toward the Identification of New HIV Permissiveness Factors in Th17 cells
 Present Position: Associate Researcher CRCHUM - Microscopy Core Facility Manager
- Principal Supervisor Monteiro Patricia (Completed) , UdeM/CRCHUM
 Student Degree Start Date: 2008/3
 Student Degree Received Date: 2011/3
 Project Description: Molecular determinants for HIV permissiveness and restriction in primary CD4+ T-cells
 Present Position: Pharmacist France

Mentoring Activities

- 2014/9 Professor of Immunology, Universite de Montreal
Number of Mentorees: 40
co-Director of the Graduate Student seminars. A bi monthly 90 min activity where all M.Sc. and Ph.D. students in the Department of Microbiology, Infectiology and Immunology present their research progress
- 2009/1 Professor of Immunology, Universite de Montreal
Number of Mentorees: 15
Director of the Advanced Immunology curriculum for graduate students. This 3 hour activity takes place weekly between January and April. Between 10 and 30 M.Sc. and Ph.D. students attend the class each year. Each week a different professor expert in a specific field gives the lecture.
- 2014/1 - 2018/10 Committee member or president, Universities in Canada, France, and Australia
Number of Mentorees: 41
In the past 5 years, I participated as a member or president of multiple juries for Universities in Canada (U de Montréal, McGill University, U Laval, U Sherbrooke, University of Toronto) and Australia (PhD defense, Monash University), for a total of 16 M.Sc. thesis; 1 M.Sc. follow-up committee; 7 Ph.D. defense; 10 Ph.D. follow-up committees; and 17 comprehensive predoctoral exams.

Community and Volunteer Activities

- 2017/11 Reviewer, Canadian Institutes of Health Research
Project grants - Immunology and Transplantation (IT-II)
- 2014/4 Reviewer, Canadian Institutes of Health Research
Project grants - Virology and viral pathogenesis
- 2015/2 - 2017/4 Reviewer, Canadian Institutes of Health Research
Foundation grants reviewer - stage 2

Knowledge and Technology Translation

- 2013/6 Expert in HIV reservoirs, Consulting for Industry
Group/Organization/Business Serviced: Alethia Biotherapeutics
Target Stakeholder: Industrial Association/Producer Group
Activity Description: Expert in HIV reservoirs for Alethia Biotherapeutics, in view of testing new ways to identify HIV reservoirs in infected subjects
- 2019/4 - 2019/4 Expert in HIV remission/cure, Consulting for Industry
Group/Organization/Business Serviced: Merck
Target Stakeholder: Industrial Association/Producer Group
Activity Description: Antiviral Guest Lecture & Consulting Scientific Input Engagement - Merck West Point, PA, USA

International Collaboration Activities

- 2017/10 Guest Speaker, United States
Invited speaker at the annual Third Coast CFAR Symposium (October 2-3, 2018; Chicago, IL, USA) in the framework of a collaboration with Dr. Thomas Hope on the role of mTOR in HIV persistence (Northwestern University, Chicago, IL, USA)

- 2017/3 Guest speaker, United States
Rush University; Guest speaker for Department Seminar Series; Invited by Dr. Edward Barker and Dr. Ali Keshavarzian
- 2015/9 NIH grant co-investigator, United States
Collaboration on a R21 NIH application (2016) as co-I in collaboration with a group led by Dr. Ali Keshavarzian (Rush University Medical Center, Chicago, IL, USA) on the "Circadian disruption, gut-derived inflammation and immune fate in HIV"

Presentations

1. Ancuta P. (2021). Targeting Th17 Cells in HIV Cure/Remission Strategies. Virtual Keystone Symposia on HIV Pathogenesis and Cure, June 1-4, 2021(Faculty: 25 min oral presentation), Keystone, Colorado, United States
Main Audience: Researcher
Invited?: Yes
2. Ancuta P. (2021). Targeting Th17 Cells for HIV-1 Remission and Cure. ViiV Science Forum. March 11th, 2021, United States
Main Audience: Researcher
Invited?: Yes
3. (2020). Targeting the Circadian Clock Machinery in Th17 Cells for HIV Cure/Remission Strategies. Keystone Symposia on HIV Pathogenesis and Cure, March 22-26. Keystone, Colorado. Invited Faculty. Plenary 30 min oral presentation. CANCELED DUE TO THE COVID19 PANDEMIC, United States
Main Audience: Researcher
Invited?: Yes
4. Ancuta P. (2020). Targeting the Clock Inside Th17 Cells for HIV-1 Cure. 29th Annual Canadian Conference on HIV/AIDS Research (CAHR 2020), Quebec City, QC. Invited, 45 min oral presentation. Keynote speaker for the Basic Sciences plenary session. VIRTUAL DUE TO THE COVID19 PANDEMIC, Canada
Main Audience: Researcher
Invited?: Yes
5. Ancuta P. (2019). Targeting Th17-Polarized CD4+ T-Cells for HIV Remission and Cure Strategies. Guest speaker – Merck West Point, PA, USA. Invited by Dr. Daria Hazuda, Vice President Infectious Disease, CSO ESC Cambridge (April 5th 2019; one hour seminar; one day work visit), West Point, PA, United States
Main Audience: Researcher
Invited?: Yes
6. Ancuta P. (2018). Using the PPARG Antagonism to Block/Lock HIV Reactivation in Th17 Cells. AIDS2018 International Conference, July 23-27, 2018 (15 min oral presentation), Amsterdam, Netherlands
Main Audience: Researcher
Invited?: No
7. Ancuta P. (2018). Targeting Nuclear Receptors to Modulate Pathogenic and Non-Pathogenic Th17 Cells in HIV Infection: Toward a “Block and Lock” Strategy. Université de Sherbrooke. Department seminar, lunch with students, and meeting with researchers. March 9th, 2018, Sherbrooke, Canada
Main Audience: Researcher
Invited?: Yes
8. Ancuta P. (2018). An Immunological Signature Associated with Subclinical Atherosclerosis in HIV-Infected Individuals Receiving ART. 2nd Canadian HIV and Aging symposium Engaging actors for better aging with HIV. April 13th, 2018, Montreal, Canada
Main Audience: Researcher
Invited?: Yes

9. Ancuta P. (2018). HIV Persistence in Th17 Cells: Finding New Ways to Cure. Keystone Symposia on HIV and Co-Infections: Pathogenesis, Inflammation and Persistence, April 15-20, 2018 (Faculty: 30 min oral presentation), Whistler, BC, Canada
Main Audience: Researcher
Invited?: Yes
10. Ancuta P. (2017). Nouvelles cibles thérapeutiques pour prévenir l'infection et la persistance du VIH-1 dans la muqueuse intestinale. ACFAS, 9 mai 2017, Montreal, Canada
Main Audience: Researcher
Invited?: Yes
11. Ancuta P. (2017). Finding Ways to Limit HIV-1 Infection and Persistence in Gut-Homing Th17 Cells: Toward a "Block and Lock" Strategy. Annual Third Coast CFAR Symposium. "'Bridging the Disciplines to Understand HIV Transmission'", October 2nd, 2017. Northwestern University (30 min oral presentation).
Invited by Dr. Thomas Hope., United States
Main Audience: Researcher
Invited?: Yes
12. Ancuta P. (2017). Quelle est la contribution des cellules myéloïdes à la persistance des réservoirs du VIH sous thérapie antirétrovirale?. Journées Québécoises VIH 9-10 mars 2017, Montréal, QC, Canada, Montreal, Canada
Main Audience: Researcher
Invited?: Yes
13. Ancuta P. (2016). Immune Activation & HIV Target Cells: what do we know, what are the next big questions, and can we intervene?. 25th Annual CAHR meeting, May 12-15, 2016 (Faculty: 15 min oral presentation), Canada
Main Audience: Researcher
Invited?: Yes
14. Ancuta P. (2016). Hétérogénéité moléculaire des cellules Th17 contribuant à la persistance du VIH-1 sous thérapie antirétrovirale. Journée scientifique de l'axe maladies infectieuses et immunitaires (AMII) Centre de Recherche du CHU de Québec-Université Laval, Canada
Main Audience: Researcher
Invited?: Yes

Broadcast Interviews

- 2018/01/04 Dr. Ancuta, parmi les 31 femmes québécoises inspirantes à surveiller en 2018: <http://www.journaldemontreal.com/2017/12/20/23-femmes-quebecoises-qui-nous-ont-inspire-en-2017>, Le Journal de Montréal

Publications

Journal Articles

1. Delphine Planas, Amélie Pagliuzza, Rosalie Ponte, Augustine Fert, Laurence Raymond Marchand, Marta Massanella, Annie Gosselin, Vikram Mehraj, Franck Dupuy, Sylvie Lesage, Eric A. Cohen, Maged Peter Ghali, Jonathan B. Angel, Nicolas Chomont, Jean-Pierre Routy* and Petronela Ancuta* (*, equal contribution). (2021). ***LILAC Pilot Study: Effects of Metformin on mTOR Activation and HIV Reservoir Persistence during Antiretroviral Therapy***. The Lancet eBioMedicine. 2021 Mar 1(0): 65:103270.
Last Author
Published
Refereed?: Yes
Number of Contributors: 13

2. Hoque TMD, Cattin A, Whyte-Allman SK, Winchester L, Fletcher CV, Routy JP, Ancuta P, Bendayan R. (2021). ***Antiretroviral Drug Transporters and Metabolic Enzymes in Circulating Monocytes and Monocyte-Derived Macrophages of ART-Treated People Living With HIV and HIV-Uninfected Individuals*** . J Acquir Immune Defic Syndr. Aug 1(87(4)): 1093.
Published
Refereed?: Yes
3. Tomas Raul Wiche Salinas#, Yuwei Zhang#, Daniele Sarnello, Alexander Zhyvoloup, Laurence Raymond Marchand, Augustine Fert, Delphine Planas, Manivel Lodha, Debashree Chatterjee, Kasia Karwacz, Sally Oxenford, Jean-Pierre Routy, David , Heather Amrine-Madsen, Petronela Ancuta*, and Ariberto Fassati* #, *, equal contribution. (2021). ***Th17 cell master transcription factor RORC2 regulates HIV-1 gene expression and viral outgrowth*** . PNAS. 0: 0.
Revision Requested
Refereed?: Yes
4. Amélie Cattin, Vanessa Sue Wacleche, Natalia Fonseca Do Rosario, Laurence Raymond Marchand, Jonathan Dias, Annie Gosselin, Eric A. Cohen, Jerome Estaquier, Nicolas Chomont, Jean-Pierre Routy and Petronela Ancuta. (2021). ***RALDH Activity in Dendritic Cells Fuels HIV Reservoirs in Bacterial/Fungal Pathogen-Reactive CD4+ T-Cells during ART*** . The Journal of Immunology. Jun 1(206(11)): 26.
Published
5. Etienne Moreira Gabriel, Tomas Raul Wiche Salinas, Annie Gosselin, Etienne Larouche-Anctil, Madeleine Durand, Alan L. Landay, Mohamed El-Far, Cécile L. Tremblay, Jean-Pierre Routy and Petronela Ancuta. (2021). ***Overt IL-32 Isoform Expression at Intestinal Level during HIV-1 Infection is Negatively Regulated by IL-17A*** . AIDS. Oct 1(35(12)): 188.
Published
6. Recordon-Pinson P, Gosselin A, Ancuta P, Routy JP, Fleury H. (2021). ***Phylogenetic analysis of HIV-1 archived DNA in blood and gut-associated lymphoid tissue in two patients under antiretroviral therapy*** . Gut. Mar 23(13(1)): 20.
Published
Refereed?: Yes
7. Tomas Raul Wiche Salinas, Annie Gosselin, Yuwei Zhang, Jean-Pierre Routy, Madelaine Durand, Mohamed El-Far, Cécile Tremblay, and Petronela Ancuta. (2021). ***An Immunological Signature for Subclinical Atherosclerosis in HIV-1 Infection*** . The Lancet EBioMedicine. To be submitted September 2021. 0: 0.
Submitted
8. El-Far M, Hanna DB, Durand M, Larouche-Anctil E, Sylla M, Chartrand-Lefebvre C, Cloutier G, Goulet JP, Kassaye S, Karim R, Kizer JR, French AL, Gange SJ, Lazar JM, Hodis HN, Routy JP, Ancuta P, Chomont N, Landay AL, Kaplan RC, Tremblay CL. (2021). ***Subclinical carotid artery atherosclerosis is associated with increased expression of peripheral blood IL-32 isoforms among women living with HIV*** . J Acquir Immune Defic Syndr. Jun 29: ahead of print.
In Press
Refereed?: Yes
9. Bunet R, Nayrac M, Ramani H, Sylla M, Durand M, Chartrand-Lefebvre C, Routy JP, Landay AL, Gauchat JF, Chomont N, Ancuta P, Kaufmann DE, Bernard N, Tremblay CL, El-Far M. (2021). Loss of CD96 Expression as a Marker of HIV-Specific CD8 + T-Cell Differentiation and Dysfunction. Front Immunol. May 27(12): 673061.
Published
Refereed?: Yes

- [10.](#) El-Far M, Durand M, Turcotte I, Larouche-Ancil E, Sylla M, Zaidan S, Chartrand-Lefebvre C, Bunet R, Ramani H, Sadouni M, Boldeanu I, Chamberland A, Lesage S, Baril JG, Trottier B, Thomas R, Gonzalez E, Filali-Mouhim A, Goulet JP, Martinson JA, Kassaye S, Karim R, Kizer JR, French AL, Gange SJ, Ancuta P, Routy JP, Hanna DB, Kaplan RC, Chomont N, Landay AL, Tremblay CL. (2021). ***Upregulated IL-32 Expression And Reduced Gut Short Chain Fatty Acid Caproic Acid in People Living With HIV With Subclinical Atherosclerosis*** . Front Immunol. Apr 15(12): 664371.
Published
Refereed?: Yes
11. Tomas Raul Wiche Salinas, Annie Gosselin, Laurence Raymond Marchand, Etienne Moreira Gabriel, Olivier Tastet, Jean-Philippe Goulet, Yuwei Zhang, Dragos Vlad, Hanane Touil, Jean-Pierre Routy, Mariana G. Bego, Mohamed El-Far, Nicolas Chomont, Alan L. Landay, Éric A. Cohen, Cécile Tremblay, and Petronela Ancuta. (2021). ***IL-17A Reprograms Intestinal Epithelial Cells to Facilitate HIV Replication and Outgrowth*** . iScience. 0(0): 0.
Last Author
In Press
Refereed?: Yes
Number of Contributors: 11
- [12.](#) Bazié WW, Goyer B, Boucher J, Zhang Y, Planas D, Chatterjee D, Routy JP, Alary M, Ancuta P, Gilbert C. (2021). ***Diurnal Variation of Plasma Extracellular Vesicle Is Disrupted in People Living with HIV*** . Pathogens. Apr 24(10(5)): 518.
Published
Refereed?: Yes
- [13.](#) Gobran ST, Ancuta P, Shoukry NH. (2021). ***A Tale of Two Viruses: Immunological Insights Into HCV/ HIV Coinfection***. Front Immunol. Aug 12(12): 726419.
Published
Refereed?: Yes
- [14.](#) Delphine Planas, Yuwei Zhang, Augustine Fert, Jean-Philippe Goulet, Maria Julia Ruiz, Laurence Raymond Marchand, Debashree Chatterjee, Huicheng Chen, Tomas Raul Wiche Salinas, Annie Gosselin, Eric A. Cohen, Jean-Pierre Routy, Nicolas Chomont1,, and Petronela Ancuta. (2020). ***Pharmacological Inhibition of PPAR γ Boosts HIV Reactivation and Th17 Effector Functions, while Preventing Progeny Virion Release and de novo Infection*** . Pathogens and Immunity. Sep 30(5(1)): 177.
Last Author
Published
Refereed?: Yes
Number of Contributors: 9
15. Isnard S, Lin J, Fombuena B, Ouyang J, Varin TV, Richard C, Marette A, Ramendra R, Planas D, Raymond Marchand L, Messaoudene M, Van der Ley CP, Kema IP, Sohail Ahmed D, Zhang Y, Finkelman M, Routy B, Angel J, Ancuta P, Routy JP. (2020). ***Repurposing Metformin in Nondiabetic People With HIV: Influence on Weight and Gut Microbiota*** . Open Forum Infect Dis. Sep 11: 7(9).
- [16.](#) Jing Ouyang, Stéphane Isnard, John Lin, Brandon Fombuena, Debashree Chatterjee, Tomas Raul Wiche Salinas, Delphine Planas, Amelie Cattin, Augustine Fert, Etienne Moreira Gabriel, Laurence Raymond Marchand, Yonglong Zhang, Malcolm Finkelman, Yaokai Chen, Daniel E. Kaufmann, Nicolas Cermakian, Petronela Ancuta and Jean-Pierre Routy. (2020). ***Daily variations of gut microbial translocation markers in ART-treated HIV-infected people*** . AIDS Research and Therapy. May 12;17(1)(00): 15.
Published
Refereed?: Yes

- [17.](#) Isnard S, Ramendra R, Dupuy FP, Lin J, Fombuena B, Kokinov N, Kema I, Jenabian MA, Lebouché B, Costiniuk CT, Ancuta P, Bernard NF, Silverman MS, Lakatos PL, Durand M, Tremblay C, Routy JP; Montreal Primary HIV Infection Study, the Canadian Cohort of HIV+ Slow Progressors, and the Canadian HIV and Aging Cohort Groups. (2020). **Plasma Levels of C-Type Lectin REG3 α and Gut Damage in People With Human Immunodeficiency Virus** . Journal of Infectious Diseases. Jan 1;221(1): 110-12.
Published
Refereed?: Yes
18. Chatterjee, D., Zhang, Y., Chen, H., Smail, Y., Wiche Salinas, T.R., Routy, J. P., and Ancuta, P. (2020). **The Aryl Hydrocarbon Receptor Negatively Regulates HIV Replication in Th17 Cells** . eLIFE. 0(0): 0.
Submitted
Refereed?: Yes
- [19.](#) Yuwei Zhang, Delphine Planas, Laurence Raymond Marchand, Marta Massanella, Huicheng Chen, Vanessa Sue Wacleche, Annie Gosselin, Jean-Philippe Goulet, Mario Fillion, Jean-Pierre Routy, Nicolas Chomont, and Petronela Ancuta. (2020). **Improving HIV Outgrowth by Optimizing Cell-Culture Conditions and Supplementing with all-transRetinoic Acid** . Frontiers in Microbiology. May 15: 11:902.
Last Author
Published
Refereed?: Yes
Number of Contributors: 9
- [20.](#) Mehraj V, Ramendra R, Isnard S, Dupuy FP, Ponte R, Chen J, Kema I, Jenabian MA, Costiniuk CT, Lebouché B, Thomas R, Côté P, Leblanc R, Baril JG, Durand M, Chartrand-Lefebvre C, Tremblay C, Ancuta P, Bernard NF, Sheppard DC, Routy JP; Montreal Primary HIV Infection Study and Canadian HIV and Aging Cohort Study Groups. (2020). **Circulating (1 \rightarrow 3)- β -D-glucan Is Associated With Immune Activation During Human Immunodeficiency Virus Infection** . Clinical Infectious Diseases. Jan 2;70(2):: 232-241.
Published
Refereed?: Yes
- [21.](#) Routy JP, Isnard S, Mehraj V, Ostrowski M, Chomont N, Ancuta P, Ponte R, Planas D, Dupuy FP, Angel JB; Lilac Study Group. (2019). **Effect of metformin on the size of the HIV reservoir in non-diabetic ART-treated individuals: single-arm non-randomised Lilac pilot study protocol**. BMJ Open. Apr 20;9(4): e028444.
Co-Author
Published
Refereed?: Yes
Number of Contributors: 10
- [22.](#) Ramendra R, Isnard S, Lin J, Fombuena B, Ouyang J, Mehraj V, Zhang Y, Finkelman M, Costiniuk C, Lebouché B, Chartrand-Lefebvre C, Durand M, Tremblay C, Ancuta P, Boivin G, Routy JP. (2019). **CMV seropositivity is associated with increased microbial translocation in people living with HIV and uninfected controls** . Clinical Infectious Diseases. Oct 14(doi: 10.10): 0.
Published
Refereed?: Yes
- [23.](#) Amélie Cattin, Tomas Raul Wiche Salinas, Annie Gosselin, Eric Cohen, Barbara Shacklett, Maged P. Ghali, Jean-Pierre Routy, Petronela Ancuta. (2019). **HIV-1 is Rarely Detected in Blood and Colon Myeloid Cells during Viral-Suppressive Antiretroviral Therapy** . AIDS. Mar 11: 1-1.
Last Author
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Refereed?: Yes
Number of Contributors: 8

- [24.](#) Delphine Planas, Jean-Pierre Routy, and Petronela Ancuta. (2019). ***New Th17-specific therapeutic strategies for HIV Cure*** . Current Opinion in HIV/AIDS. Mar;14(2): 85-92.
Last Author
Published
Refereed?: Yes
Number of Contributors: 3
- [25.](#) Vanessa Sue Wacleche, Amélie Cattin, Jean-Philippe Goulet, Dominique Gauchat, Annie Gosselin, Aurélie Cleret-Buhot, Yuwei Zhang, Cécile Tremblay, Jean-Pierre Routy, and Petronela Ancuta. (2018). ***CD16+ monocytes give rise to CD103+RALDH2+TCF4+ dendritic cells with unique transcriptional and immunological features*** . Blood Advances. Nov 13(2(21)): 2862-2878.
Last Author
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Refereed?: Yes
Number of Contributors: 10
- [26.](#) Wacleche VS, Tremblay CL, Routy JP, Ancuta P. (2018). ***The Biology of Monocytes and Dendritic Cells: Contribution to HIV Pathogenesis*** . Viruses. 2018 Feb 6(10(2)): E65.
Last Author
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Refereed?: Yes
Number of Contributors: 4
- [27.](#) Costiniuk CT, Salahuddin S, Farnos O, Olivenstein R, Pagliuzza A, Orlova M, Schurr E, De Castro C, Bourbeau J, Routy JP, Ancuta P, Chomont N, Jenabian MA. (2018). ***HIV persistence in mucosal CD4+ T cells within the lungs of adults receiving long-term suppressive antiretroviral therapy.*** . AIDS. Oct 23;32(16): 2279-2289.
Co-Author
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Refereed?: Yes
Number of Contributors: 13
28. Saraiva GN, do Rosário NF, Medeiros T, Leite PEC, Lacerda GS, de Andrade TG, de Azeredo EL, Ancuta P, Almeida JR, Xavier AR, Silva AA. (2018). ***Restoring Inflammatory Mediator Balance after Sofosbuvir-Induced Viral Clearance in Patients with Chronic Hepatitis C*** . Mediators Inflamm. May 27: 8578051.
Co-Author
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Refereed?: Yes
Number of Contributors: 11
- [29.](#) Annie Gosselin, Tomas Raul Wiche Salinas, Delphine Planas, Vanessa Sue Wacleche, Yuwei Zhang, Rémi Fromentin, Nicolas Chomont, Éric A. Cohen, Barbara Shacklett, Vikram Mehraj, Maged Peter Ghali, Jean-Pierre Routy, and Petronela Ancuta. (2017). ***HIV persists in CCR6+CD4+ T-cells from colon and blood during antiretroviral therapy*** . AIDS. 31(1)(Jan 2): 35-48.
Last Author
Published
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Number of Contributors: 13
- [30.](#) Wacleche VS Landay A Routy JP Ancuta P. (2017). ***The Th17 Lineage: From Barrier Surfaces Homeostasis to Autoimmunity, Cancer, and HIV-1 Pathogenesis*** . Viruses. Oct 19;9(10): E303.
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- [31.](#) Delphine Planas, Yuwei Zhang, Patricia Monteiro, Jean-Philippe Goulet, Annie Gosselin, Nathalie Grandvaux, Thomas J. Hope, Ariberto Fassati, Jean-Pierre Routy, and Petronela Ancuta. (2017). ***HIV-1 selectively targets gut-homing CCR6+CD4+T-cells via mTOR-dependent mechanisms*** . JCI Insight. Aug 3;2(15): 93230.
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Refereed?: Yes
Number of Contributors: 10
32. Alexander Zhyvoloup, Anat Melamed, Ian Anderson, Delphine Planas, Chen-Hsuin Lee, Janos Kriston-Vizi, Robin Ketteler, Andy Merritt, Petronela Ancuta, Charles R. M. Bangham and Ariberto Fassati. (2017). ***Digoxin reveals a functional connection between HIV-1 integration preference and T-cell activation*** . PlosPathogens. 00: 00.
Co-Author
Revision Requested
Refereed?: Yes
Number of Contributors: 11
- [33.](#) Lodge R, Ferreira Barbosa JA, Lombard-Vadnais F, Gilmore JC, Deshiere A, Gosselin A, Wiche Salinas TR, Bego MG, Power C, Routy JP, Ancuta P, Tremblay MJ, Cohen ÉA. (2017). ***Host MicroRNAs-221 and -222 Inhibit HIV-1 Entry in Macrophages by Targeting the CD4 Viral Receptor*** . Cell Rep.Oct 3;21((1)): 141-153.
Co-Author
Published
Refereed?: Yes
Number of Contributors: 13
- [34.](#) El-Far M, Kouassi P, Sylla M, Zhang Y, Fouda A, Fabre T, Goulet JP, van Grevenynghe J, Lee T, Singer J, Harris M, Baril JG, Trottier B, Ancuta P, Routy JP, Bernard N, Tremblay CL; Investigators of the Canadian HIV+ Slow Progressor Cohort. (2016). ***Proinflammatory isoforms of IL-32 as novel and robust biomarkers for control failure in HIV-infected slow progressors*** . Sci Rep.Mar 15;6: 22902.
Co-Author
Published
Refereed?: Yes
Number of Contributors: 17
- [35.](#) Jenabian MA, Costiniuk CT, Mehraj V, Ghazawi FM, Fromentin R, Brousseau J, Brassard P, Bélanger M, Ancuta P, Bendayan R, Chomont N, Routy JP; Orchid study group. (2016). ***Immune tolerance properties of the testicular tissue as a viral sanctuary site in ART-treated HIV-infected adults*** . AIDS. 30 (18) (Nov 28): 2777-2786.
Co-Author
Published
Refereed?: Yes
Number of Contributors: 12
- [36.](#) Wacleche VS, Goulet JP, Gosselin A, Monteiro P, Soudeyns H, Fromentin R, Jenabian MA, Vartanian S, Deeks SG, Chomont N, Routy JP, Ancuta P. (2016). ***New insights into the heterogeneity of Th17 subsets contributing to HIV-1 persistence during antiretroviral therapy***. Retrovirology. Aug 24(13(1)): 59.
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Refereed?: Yes
Number of Contributors: 10

- [37.](#) Zhang Y, El-Far M, Dupuy FP, Abdel-Hakeem MS, He Z, Procopio FA, Shi Y, Haddad EK, Ancuta P, Sekaly RP, Said EA. (2016). ***HCV RNA Activates APCs via TLR7/TLR8 While Virus Selectively Stimulates Macrophages Without Inducing Antiviral Responses*** . Sci Rep. Jul 7;6: 29447.
Published
Refereed?: Yes

Working Papers

1. (Zhang, Y#, Zhyvoloup A#, Planas, D., Chen, H., Kasia Karwacz, Wiche-Salinas, T.R., Gosselin, A., Ancuta, P*, Fassati, A* #, co-first authors *, co-corresponding authors). (2018). The Th17 Cell-Specific Transcription Factor RORC Regulates HIV-1 Replication and Persistence. To be submitted to Nature Microbiology December 2018.
2. (Zhang, Y, Planas, D., Wiche-Salinas, T.R., Chen, H., Gosselin, A., Routy J-P, Ancuta, P.). (2018). Circadian variations in CD4+ T lymphocyte recirculation and HIV-1 reactivation with implication for the cure. To be submitted to PlosBiology in December 2018.

Conference Publications

1. Christ-D. Ngassaki-Yoka, Debashree Chatterjee, Yuwei Zhang, Tomas Wiche Salinas, Laurence Raymond Marchand, Nicolas Cermakian, Jean-Pierre Routy, Laura Solt, and Petronela Ancuta. (2021). **The Circadian Clock Machinery Regulates HIV Transcription in CD4+ T cells**. International AIDS Society (AIDS) 2021. Oral presentation by CDNY. IAS/ANR Dominique Dormont Prize received by CDNY
Abstract
Last Author
Published, Invited?: No
2. Jonathan Dias, Amélie Cattin, Jean-Pierre Routy, and Petronela Ancuta. (2021). **Retinoic Acid Boosts HIV-1 Replication in Monocyte-Derived Macrophages**. International AIDS Society (IAS) 2021 Virtual Poster
Last Author
Published, Invited?: No
3. D. Chatterjee, Y.Zhang, H.Chen, Y.Smail, T. Wiche Salinas, J-P. Routy, and P. Ancuta. (2020). **The Aryl Hydrocarbon Receptor Negatively Regulates HIV Replication in Th17/Th22 Cells** . 29th Annual Canadian Conference on HIV/AIDS Research, (CAHR 2020), VIRTUAL May1-2, 2020 (Poster)
Poster
Last Author
Submitted, Invited?: No
4. Etienne Moreira Gabriel, Tomas Wiche Salinas, Annie Gosselin, Etienne Larouche-Anctil, Mohamed El-Far, Madeleine Durand, Jean-Pierre Routy, Cécile Tremblay, Petronela Ancuta. (2020). **IL-17A Negatively Regulates IL-32 Isoform Expression in Intestinal Epithelial Cells in the Context of HIV-1 Infection** . 29th Annual Canadian Conference on HIV/AIDS Research, (CAHR 2020), VIRTUAL May1-2, 2020 (Poster)
Poster
Last Author
Published, Invited?: No
5. Amélie Cattin, Vanessa Sue Wacleche, Natalia Fonseca Do Rosario , Jean-Philippe Goulet, Laurence Raymond Marchand, Jonathan Dias, Annie Gosselin, Jean-Pierre Routy, and Petronela Ancuta. (2020). **Staphylococcus aureus and Candida albicans Facilitate HIV Reservoir Establishment in CD4+ T-Cells by Promoting RALDH Activity in Dendritic Cells** . 29th Annual Canadian Conference on HIV/AIDS Research, (CAHR 2020), VIRTUAL May1-2, 2020 (Poster)
Poster
Last Author
Published, Invited?: No

6. Delphine Planas, Rosalie Ponte, Amélie Pagliuzza, Augustine Fert, Laurence Marchand Raymond, Annie Gosselin, Franck Dupuy, Vikram Mehraj, Sylvie Lesage, Maged Peter Ghali, Jonathan B. Angel, Eric A. Cohen, Nicolas Chomont, Jean-Pierre Routy and Petronela Ancuta. (2020). ***Effect of Metformin Treatment on Non-Diabetic HIV-Infected Individuals on ART*** . 29th Annual Canadian Conference on HIV/AIDS Research, (CAHR 2020), VIRTUAL May1-2, 2020 (Oral by AF)
Paper
Last Author
Published, Invited?: No
7. Amélie Cattin, Tram NQ Pham, Natalia F. Rosario, Laurence Raymond-Marchand, Olga Volodina, Frédéric Dallaire, Jonathan Dias, Jean-Victor Guimond⁴, Natacha Patey, Elie Haddad, Éric A. Cohen and Petronela Ancuta. (2020). ***Humanized Mice for Studying HIV Persistence in Long-Lived Tissue-Resident Macrophages*** . 29th Annual Canadian Conference on HIV/AIDS Research, (CAHR 2020), VIRTUAL May1-2, 2020 (Poster)
Paper
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