

2/22/10

CURRICULUM VITAE

NAME: Cristian Apetrei

CITZENSHIP: Romania

BUSINESS ADDRESS:

Center for Vaccine Research
University of Pittsburgh
9044 Biomedical Science Tower 3
3501 Fifth Avenue
Pittsburgh, PA 15261

BUSINESS PHONE: (412)24-3235

BUSINESS FAX: (412) 624-4440

EMAIL ADDRESS: apetreic@cvr.pitt.edu

EDUCATION AND TRAINING

Graduate

Dates Attended	Name and Location of Institution	Degree Received and Year	Major Subject
1990	School of Medicine, "Grigore T. Popa" University of Iasi, Romania	1990 - MD	Medicine
1991	School of Medicine, "Grigore T. Popa" University of Iasi, Romania	1991	Resident in Microbiology
1993	Submitted Sept. 1993 viva Dec. 1993	1993 - PhD	
1994	Department of Microbiology, School of Medicine, "Grigore T. Popa" University of Iasi, Romania	Board Certified Microbiologist	Microbiology

APPOINTMENTS AND POSITIONS

Academic

Years Inclusive	Name and Location of Institution or Organization	Title or Position/Rank
1990	Infectious Diseases Clinic of Iasi	Physician in training
1990 - 1994	Laboratory of Virology, Department of Microbiology, School of Medicine, "Gr.T.Popa" University of Iasi, Romania	Resident and Junior Lecturer
1994 - 1995	AUPELF/UREF (Université des Réseaux d'Expression Française) in Virology Laboratory of Pr. F. Brun-Vézinet (Bichat - Claude-Bernard Hospital, Paris, France)	Post-Doctoral Fellow
1995 - 1996	Department of Microbiology, School of Medicine, "Grigore T. Popa" University of Iasi, Romania	Assistant Professor
1996 - 1998	ANRS (Agence Nationale de Recherches sur le SIDA) in Virology Laboratory of Pr. F. Brun-Vézinet (Bichat - Claude-Bernard Hospital, Paris, France)	Post-Doctoral Fellow
1998 - 1999	Department of Microbiology, School of Medicine, "Grigore T.Popa" University of Iasi Romania and Virus Laboratory, Infectious Diseases Clinic of Iasi	Assistant Professor and Associate Reasearcher
1999 - 2001	Retrovirology Laboratory, International Medical Research Center, Franceville, Gabon	Senior Reasearcher
2001 - 2002	Aaron Diamond AIDS Research Center New York	Research Associate

2002 - 2006	Tulane National Primate Research Center and Research Assistant Professor, Department of Tropical Medicine, School of Public Health, Tulane University, New Orleans, LA	Research Scientist
2006 - 2009	Tulane National Primate Research Center and Associate Professor, Department of Tropical Medicine, School of Public Health, Tulane University, New Orleans, LA	Core Scientist and Associate Professor
2009 - present	Center for Vaccine Research, and Department of Microbiology and Molecular Genetics, School of Medicine, University of Pittsburgh, Pittsburgh, PA	Associate Professor

MEMBERSHIP in PROFESSIONAL and SCIENTIFIC SOCIETIES

Year	Organization
Present	American Society for Microbiology
1998 - 1999	Associate Member in the Scientific Council of the Romanian Institute of Haematology, Bucharest, Romania
1997 - 2001	Virology Branch of the Romanian AIDS National Commission, Member of the Scientific Council of the Romanian anti-AIDS Association (NGO)
1996 - 2001	Director, WHO Influenza Center, Iasi, Romania

HONORS and AWARDS

Year	Title of Award
1994	Travel Award, Immunocompromised Host Society, 8-th International Symposium (Davos, Switzerland)
1994 -1995	Post-doctoral excellence fellowship–Network of Francophone Universities (UREF) for the study of the epidemiology of AIDS
1996	Young Scientist Award, "Options for the Control of Influenza III" (Cairns, Australia)
1996	Scholarship Award, XI-th International Conference on AIDS (Vancouver, Canada)
1996 - 1998	Post-doctoral fellowship, Agence Nationale de Recherches sur le SIDA
1998	Young Scientist Award, V-th Conference on Retrovirus and Opportunistic Infections (Chicago, USA)
1998	Scholarship, XII-th International Conference on AIDS (Geneva, Switzerland)
2000	Scholarship, XIII-th International Conference on AIDS (Durban, Sowth Africa)
2004	TUHSC Auxiliary Research Career Development Award
2005	TUHSC Research Recognition Award
2006	Promise in Research, Tulane University
2007	Leadership in Research, Tulane University

PUBLICATIONS

Peer Reviewed Journals

1. **Apetrei C**, Loussert-Ajaka I, Descamps D, Damond F, Saragosti S, Brun-Vézinet F & Simon F. Lack of screening test sensitivity during HIV-1 non-subtype B seroconversions. *AIDS* (Fast track) 1996, 10: F57-F60.
2. Descamps D, Collin G, Letourneur F, **Apetrei C**, Damond F, Loussert-Ajaka I, Saragosti S, Simon F & Brun-Vézinet F. HIV-1 group O susceptibility to antiretroviral drug: An *in vitro* phenotypical and genotypical study. *J Virol* 1997, 71: 8893-8898.

3. **Apetrei C**, Loussert-Ajaka I, Collin G, Letourneur F, Duca M, Saragosti S, Simon F & Brun-Vézinet F. HIV Type 1 subtype F sequences in Romanian children and adults. *AIDS Res Hum Retroviruses* 1997, 13: 363-365.
4. Descamps D, Calvez V, Collin G, Cécille A, **Apetrei C**, Damond F, Katlama C, Matheron S, Huraux JM & Brun-Vézinet F. Line Probe Assay (LiPA) for the detection of HIV-1 resistance mutation to nucleoside inhibitors of reverse transcriptase: comparison with sequence analysis. *J Clin Microbiol* 1998 36: 2143-2415.
5. Mauclere P, Damond F, **Apetrei C**, Loussert-Ajaka I, Souquiere S, Bouzelay L, Dalbon P, Jolivet M, Mony Love M, Brun-Vézinet F, Simon F & Barin F. Synthetic peptide ELISAs for detection of and discrimination between group M and group O HIV-1 infection. *AIDS Res Hum Retroviruses* 1997, 13: 987-993 (2.499).
6. Loussert-Ajaka I, Menu E, **Apetrei C**, Peeters M, Damond F, Eberle J, Brengues C, Saragosti S, Barré-Sinoussi F, Brun-Vézinet F & Simon F. HIV type 1 diversity and the reliability of Heteroduplex Mobility Assay. *AIDS Res Hum Retroviruses* 1998, 14: 877-883.
7. Coman G, Moraru E, Butnaru F, Carasevici E & **Apetrei C**. *Rhodococcus equi* systemic infection in an HIV-1 infected child. *Clin Microbiol Infect* 1998, 4: 353-354.
8. Damond F, Loussert-Ajaka I, **Apetrei C**, Descamps D, Souquière S, Leprêtre A, Matheron S, Brun-Vézinet F & Simon F. A highly sensitive method for HIV-2 DNA amplification. *J Clin Microbiol* 1998, 36: 809-811.
9. Coman G, Moraru E, Butnaru F, Carasevici E & **Apetrei C**. *Rhodococcus equi* systemic infection in an HIV-1 infected child. *Clin Microbiol Infect* 1998, 4: 353-354.
10. Damond F, Loussert-Ajaka I, **Apetrei C**, Descamps D, Souquière S, Leprêtre A, Matheron S, Brun-Vézinet F & Simon F. A highly sensitive method for HIV-2 DNA amplification. *J Clin Microbiol* 1998, 36: 809-811.
11. Mayer V, **Apetrei C**, Habekova M, Tchentsova N, Bruckova M, Klaskala W, Baum MK, Brun-Vézinet F & Simon F. HIV-1 diversity in heterosexual population in Slovakia, Ukraine and Czech Republic. *AIDS* 1998, 12: 1109-1111.
12. Descamps D, **Apetrei C**, Collin G, Loussert-Ajaka I, Simon F & Brun-Vézinet F. Natural decrease susceptibility of HIV-1 subtype G to protease inhibitors. *AIDS*. 1998, 12: 1111-1113.
13. **Apetrei C**, Tamalet C, Edlinger C, Saimot AG, Brun-Vézinet F & Simon F. Delayed seroconversion after antiretroviral therapy during primary human immunodeficiency virus type 1 infection. *AIDS* 1998, 12: 1935-1936.
14. **Apetrei C**, Necula A, Holm-Hansen C, Loussert-Ajaka I, Pandrea I, Cozmei C, Pascu FR, Negut E, Streinu-Cercel A, Molnar G, Duca M, Pecec M, Brun-Vézinet F & Simon F. HIV-1 diversity in Romania. *AIDS* 1998, 12: 1079-1085.
15. Plantier JC, Damond F, Brengues C, Sankalé JL, **Apetrei C**, Buzelay L, M'Boup S, Kanki P, Peeters M, Simon F & Barin F. V3 serotyping of HIV-1 infection: correlation with genotyping and limitations. *J Acquired Immune Defin Syndr Hum Retrovirol* 1999, 20: 432-441.
16. Damond F, **Apetrei C**, Descamps D, Brun-Vézinet F & Simon F. HIV-1 subtypes and plasma RNA quantification. *AIDS* 1999, 13: 286-288.

17. Covic A, Iancu L, **Apetrei C**, Scripcaru D, Volovat C, Mititiuc I & Covic M. Hepatitis virus infection in haemodialysis patients from Moldavia. *Nephrol Dial Transplant* 1999, 14: 40-45.
18. Damond F, **Apetrei C**, Robertson DL, Souquière S, Leprêtre A, Matheron S, Brun-Vézinet F & Simon F. Variability of human immunodeficiency virus type 2 infecting patients living in France. *Virology* 2001, 280: 19-30.
19. Simon F, Souquière S, Damond F, Makuwa M, Leroy E, Rouquet P, Berthier JL, Rigoulet J, Lecu A, Telfer PT, Pandrea I, Plantier JC, Barré-Sinoussi F, Roques P, Müller-Trutwin MC & **Apetrei C**. A synthetic peptide strategy for the detection of and discrimination among highly divergent primate lentiviruses. *AIDS Res Hum Retroviruses*. 2001, 17: 937-952.
20. Souquière S, Bibollet-Ruche F, Robertson DL, Makuwa M, **Apetrei C**, Onanga R, Kornfeld C, Plantier JC, Gao F, Abernethy K, White LJ, Karesh W, Telfer PT, Wickings EJ, Maucière P, Marx PA, Barré-Sinoussi F, Hahn BH, Müller-Trutwin MC & Simon F. Wild *Mandrillus sphinx* are carriers of two types of lentiviruses. *J Virol* 2001, 75: 7112-7121.
21. Pandrea I, Descamps D, Collin G, Robertson DL, Dimitrienco V, Gheorghita V, Damond F, Simon F, Brun-Vézinet F & **Apetrei C**. Human immunodeficiency virus type 1 diversity and genotypic drug susceptibility in the Republic of Moldova. *AIDS Res Hum Retrovirus* 2001, 17: 1297-1304.
22. Pandrea I, Onanga R, Rouquet P, Bourry O, Ngari P, Wickings JE, Roques P & **Apetrei C**. Chronic SIV infection ultimately causes immunodeficiency in African non-human primates. *AIDS*, 2001, 15: 2461-2462.
23. Leroy E, Baize S, Mavoungou E & **Apetrei C**. Sequence analysis of GP, NP, VP40 and VP24 genes of Ebola virus from deceased, survival and asymptomatic infected individuals during 1996 outbreak in Gabon. Comparative studies and phylogenetic characterization. *J Gen Virol* 2002, 83: 67-73.
24. Makuwa M, Souquière S, Niangui MT, Rouquet P, **Apetrei C**, Roques P & Simon F. Rapid tests for HIV variant infection diagnosis. *J Virol Meth* 2002, 104: 183-190.
25. Pandrea I, Robertson DL, Onanga R, Gao F, Makuwa M, Bedjabaga I, Roques P, Simon F & **Apetrei C**. Analysis of partial *gag*, *pol* and *env* sequences indicates a high prevalence of HIV type 1 recombinant strains circulating in Gabon. *AIDS Res Hum Retroviruses* 2002, 18: 1103-1116.
26. Onanga R, Kornfeld C, Pandrea I, Souquière S, Rouquet P, Poaty Mavoungou V, M'Boup V, Barré-Sinoussi F, Simon F, **Apetrei C**, Roques P & Müller-Trutwin MC. High levels of viral load replication contrast with only transient changes in CD4⁺ and CD8⁺ cell numbers during the early phase of experimental infection with simian immunodeficiency virus SIVmnd-1 in *Mandrillus sphinx*. *J. Virol*, 2002, 76: 10256-10263.
27. Ling B, Santiago ML, Meleteh S, Gormus B, McClure HM, **Apetrei C**, Hahn BH & Marx PA. Noninvasive detection of new simian immunodeficiency virus lineages in captive sooty mangabeys: ability to amplify virion RNA from fecal samples correlates with viral load in plasma. *J Virol* 2003, 77: 2213-2226.
28. **Apetrei C**, Descamps D, Collin G, Robertson DL, Pandrea I, Groza P, Prisecariu L, Teodorescu I, Luca V & Brun-Vézinet F. HIV type 1 diversity in Northeastern Romania in 2000-2001 based on phylogenetic analysis of *pol* sequences from patients failing antiretroviral therapy. *AIDS Res Hum Retroviruses*, 2003, 19: 1155-1161.

29. Pandrea I, Onanga R, Kornfeld C, Rouquet P, Bourry O, Clifford S, Abernethy K, White LTW, Telfer PT, Ngari P, Müller-Trutwin MC, Roques P, Marx PA, Simon F & **Apetrei C**. High levels of SIVmnd-1 replication in chronically infected mandrills. *Virology*, 2003, 317: 119-127.
30. **Apetrei C**, Robertson DL & Marx PA. The history of SIVs and AIDS: Epidemiology, phylogeny and biology of isolates from naturally infected non-human primates (NHP) in Africa. *Front. Biosci* 2004, 9: 225-254.
31. **Apetrei C**, Marx PA & Smith S. The evolution of HIV and its consequences. *Infect Dis Clinics N America* 2004, 18: 369-94.
32. Roques P, Robertson DL, Souquiere S, **Apetrei C**, Nerrienet E, Barre-Sinoussi F, Muller-Trutwin MC & Simon F. Phylogenetic characteristics of three new HIV-1 N strains and implications for the origin of group N. *AIDS* 2004, 18: 1371-1381.
33. Ling B, **Apetrei C**, Pandrea I, Veazey RS, Lackner AA, Gormus B & Marx PA. Classic AIDS in a sooty mangabey after 18 year natural infection. *J Virol* 2004, 78: 8902-8909.
34. Marx PA, **Apetrei C** & Drucker E. AIDS as a zoonosis? Confusion over the origin of the virus and the origin of the epidemics. *J Med Primatol.* 2004, 33, 220-226.
35. **Apetrei C**, Gormus B, Pandrea I, Metzger M, ten Haaft P, Martin LN, Bohm R, Alvarez X, Koopman G, Murphey-Corb M, Veazey RS, Baskin G, Heeney J & Marx PA. Direct inoculation of SIVsm in black mangabey (*Lophocebus aterrimus*). First evidence of AIDS in a heterologous African species and different pathologic outcomes of experimental infection. *J Virol* 2004, 78: 11506-11518. *Comment in Nature Reviews Microbiology: Jones S: SIV emerges to cause AIDS in African monkeys. Nat Rev Microbiol* 2004; 2: 927.
36. **Apetrei C** & Marx PA. African lentiviruses related to HIV. *J Neurovirol* 2005, 11 (suppl. 1): 33-49.
37. Traina-Dorge VL, Lorino R, Gormus B, Metzger M, Telfer PT, Richardson D, Roberson DL, Marx PA & **Apetrei C**. Molecular epidemiology of simian T-cell lymphotropic virus type 1 in wild and captive sooty mangabeys. *J. Virol*, 2005, 79: 2541-2548.
38. **Apetrei C**, Metzger MJ, Richardson D, Ling B, Telfer PT, Reed P, Robertson DL & Marx PA. Detection and partial characterization of simian immunodeficiency virus (SIVsm) strains from bush meat samples from rural Sierra Leone. *J Virol* 2005, 79, 2631-2636.
39. Kornfeld C, Ploquin MJY, Pandrea I, Faye A, Onanga R, **Apetrei C**, Poaty-Mavoungou V, Rouquet P, Estaquier J, Mortara L, Le Grand R, Roques P, Simon F, Barré-Sinoussi F, Diop OM & Müller-Trutwin MC. Anti-inflammatory profiles during primary SIVagm infection are associated with protection against AIDS. *J. Clin. Invest.*, 2005, 115: 1082-1091. *Comment in Nature Reviews Immunology: Bell E: Complex regulation of immune responses to HIV and SIV. Nat Rev Immunol* 2005; 5: 357.
40. Pandrea I, Kornfeld C, Ploquin M, **Apetrei C**, Faye A, Rouquet P, Roques P, Simon F, Barré-Sinoussi F, Müller-Trutwin MC & Diop OM. Impact of viral factors on very early *in vivo* replication profiles in SIVagm infected African green monkeys. *J Virol* 2005, 79: 6249-6259.
41. **Apetrei C**, Kaur A, Lerche NW, Metzger M, Pandrea I, Hardcastle J, Fakelstein S, Bohm R, Koehler J, Traina-Dorge V, Williams T, Staprans S, Plauche G, Veazey RS, McClure H, Lackner AA, Gormus B, Robertson DL & Marx PA. Molecular epidemiology of SIVsm in U.S. Primate Centers unravels the origin of SIVmac and SIVsm. *J Virol* 2005, 79: 8991-9005.

42. Gordon S, Pandrea I, Dunham R, **Apetrei C** & Silvestri G. The call of the wild: What can we learn from studies of SIV infection of natural hosts? In Leitner T, Foley B, Hahn B, Marx P, McCutchan F, Mellors J, Wolinsky S, and Korber B (Eds.): *HIV Sequence Compendium 2005*. Theoretical Biology and Biophysics Group, Los Alamos National Laboratory, NM, LA-UR 04-7420, 2-29.
43. **Apetrei C**, Lerche N, Pandrea I, Gormus B, Silvestri G, Kaur A, Robertson DL, Hardcastle J, Lackner A & Marx P: Kuru experiments triggered the emergence of pathogenic SIVmac. *AIDS* 2006, 21: 317-321.
44. Onanga R, Souquière S, Makuwa M, Mouinga-Ondeme A, Simon F, **Apetrei C** & Roques P. Primary SIVmnd-2 infection in mandrills (*Mandrillus sphinx*). *J Virol*, 2005; 80: 3301-3309.
45. Dunham R, Pagliardini P, Gordon S, Sumpter B, Engram J, Moanna A, Paiardini M, Mandl JN, Lawson B, Garg S, McClure HM, Xian-Xu H, Ibegbu C, Easley K, Katz N, Pandrea I, **Apetrei C**, Sodora DL, Staprans SI, Feinberg MB & Silvestri G. The AIDS-resistance of naturally SIV-Infected sooty mangabeys is independent of cellular immunity to the virus. *Blood* 2006, 108: 209-217.
46. **Apetrei C**, Becker J, Metzger M, Gautam R, Engle J, Wales AK, Eyong M, Enyong P, Foley BT, Drucker E & Marx PA. Potential for transmission of blood borne pathogens by repeated syringe use in Cameroon. *AIDS* 2006; 20: 1074-1076.
47. Pandrea I, **Apetrei C**, Dufour J, Dillon N, Barbercheck J, Metzger M, Jaquelin B, Bohm R, Marx PA, Barre-Sinoussi F, Hirsch VM, Muller-Trutwin MC, Lackner AA & Veazey RS. SIVagm.sab infection of Caribbean African green monkeys: A new model for the study of SIV pathogenesis in natural hosts. *J Virol* 2006; 80: 4858-4867.
48. Pandrea I, Silvestri G, Onanga R, Veazey RS, Marx PA, Hirsch V & Apetrei C. SIV replication dynamics in African non-human primate hosts: Common patterns and species-specific differences. *J Med Primatol*, 2006: 35: 194-201.
49. Makuwa M, Souquiere S, Telfer P, **Apetrei C**, Vray M, Bedjabaga I, Mouinga-Ondeme A, Onanga R, Marx PA, Kazanji M, Roques P & Simon F. Identification of hepatitis B virus sub-genotype A3 in rural Gabon. *J Med Virol* 2006, 78: 1175-1184.
50. WanDe Woude S & **Apetrei C**. Going wild: Lessons from T-lymphotropic naturally occurring lentiviruses. *REV Clin Microbiol* 2006, 19: 728-762.
51. Pandrea I, **Apetrei C**, Gordon S, Barbercheck, Dufour J, Bohm R, Sumpter B, Roques P, Marx PA, Hirsch V, Kaur A, Lackner AA, Veazey RS & Silvestri G. Paucity of CD4+CCR5+ T-cells is a typical feature of natural SIV hosts. *Blood*, 2007, 109: 1069-1076. *Comment in Blood*: Roederer M & Mattapallil J: CCR5 and HIV: the less, the better. *Blood*, 2007; 109: 854.
52. Butler IF, Pandrea I, Marx PA & **Apetrei C**. HIV genetic diversity: Biological and public health consequences. *Curr HIV Res*, 2007, 5: 31-56.
53. Gautam R, Carter AC, Katz N, Butler IF, Barnes M, Hasegawa A, Ratterree M, Silvestri G, Marx PA, Hirsch VM, Pandrea I & **Apetrei C**. *In vitro* characterization of primary SIVsmm isolates belonging to different lineages. In vitro growth on rhesus macaque cells is not predictive for in vivo replication in rhesus macaques. *Virology*, 2007; 362: 257-270.
54. **Apetrei C**, Gautam R, Sumpter B, Carter AC, Gaufin T, Staprans S, Else J, Barnes M, Cao B, Garg S, Milush J, Sodora DL, Pandrea I & Silvestri G. Virus-subtype specific features of natural SIVsmm infection in sooty mangabeys. *J Virol*, 2007; 81: 7913-7923.

55. Gordon S, Klatt NR, Milush J, Engram JC, Dunham RM, Paiardini M, Strobert EA, **Apetrei C**, Pandrea I, Staprans SI, Sodora DL & Silvestri G. Severe depletion of mucosal CD4⁺ T cells in AIDS-free SIV-infected mangabeys. *J Immunol*, 2007, 179: 3026-3034.
56. Pandrea I, Gautam R, Ribeiro RM, Brenchley JM, Butler IF, Pattison M, Rasmussen T, Marx PA, Silvestri G, Lackner AA, Perelson AS, Douek DC, Veazey RS & **Apetrei C**. Acute loss of intestinal CD4⁺ T cells is not predictive of SIV virulence. *J Immunol*, 2007, 179: 3035-3046.
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58. Coleman C, **Apetrei C**, Muller-Trutwin MC & Pandrea I. Tregs: Aid or hindrance in the clearance of disease? *J Cell Mol Med*, 2007, 11: 1291-1325.
59. Gordon SN, Dunham RM, Engram JC, Estes J, Klatt N, Pandrea I, **Apetrei C**, Sodora DL, Lee HY, Haase AT, Miller M, Kaur A, Staprans SI, Perelson AS, Feinberg MB, & Silvestri G. Short-lived infected cells support the bulk of virus replication in naturally SIV-infected sooty mangabeys: implications for AIDS pathogenesis. *J Virol* 2008; 82: 3725-3735.
60. Pandrea I, Ribeiro RM, Gautam R, Gaufin T, Pattison M, Barnes M, Monjure C, Stoulig C, Silvestri G, Miller M, Perelson AS, & **Apetrei C**. Simian immunodeficiency virus SIV_{agm} dynamics in African green monkeys. *J Virol* 2008; 82: 3713-3724.
61. Paiardini M, Frank I, **Apetrei C**, Pandrea I, & Silvestri G. Mucosal immune dysfunction in AIDS pathogenesis. *AIDS Reviews* 2008; 10; 36-46.
62. Pandrea I, Onanga R, Souquiere S, Mouinga-Ondéme A, Bourry O, Makuwa M, Rouquet P, Silvestri G, Simon F, Roques P & **Apetrei C**. Paucity of CD4⁺ CCR5 T-cells may prevent breastfeeding transmission of SIV in natural non-human primate hosts. *J. Virol* 2008; 82: 5501-5509.
63. Pandrea I, Sodora DL, Silvestri G, & **Apetrei C**. Into the wild: Simian immunodeficiency virus (SIV) infection in natural hosts. *Trends Immunol* 2008; 29: 419-428.
64. Pandrea I, Gaufin T, Brenchley JM, Gautam R, Monjure C, Gautam A, Coleman C, Lackner AA, Ribeiro RM, Douek DC, & **Apetrei C**. Experimentally induced immune activation in natural hosts of SIV results in significant increases in viral replication. *J Immunol*. 2008; **181**: 6687-6691.
65. Smith SM, Edwards D, DeLame V, Shah U, Gautam R, Gautam A, **Apetrei C**, and Marx PA. Emergence of a new, pathogenic HIV-2 group in the US. *Retrovirology*, 2008; 5: 103.
66. Paiardini M, Pandrea I, **Apetrei C**, and Silvestri G. Lessons learned from the natural hosts of HIV-related viruses. *Annu Rev Med*. 2009; 60: 485-495.
67. Souquière S, Onanga R, Makuwa M, Pandrea I, Ngari P, Rouquet P, Bourry O, Kazanji M, **Apetrei C**, Simon F, & Roques P. SIV_{mnd-1} and SIV_{mnd-2} have different pathogenic potentials in rhesus macaques upon experimental cross-species transmission. *J Gen Virol*, 2009; 90: 488-499.
68. Pandrea I, Silvestri G, and **Apetrei C**. AIDS in African nonhuman primate hosts of SIVs: A new paradigm of SIV infection. *Curr HIV Res* 2009, 6: 57-72.
69. Gaufin T, Gautam R, Kasheta M, Ribeiro R, Ribka E, Barnes M, Pattison M, Tatum C, Monjure C,

- Montefiori D, Kaur A, Pandrea I, & **Apetrei C**. Limited impact of humoral immune responses on controlling viremia during rhesus macaque infection with the neutralization-sensitive strain SIVsmmD215. *Blood*, 2009; 113: 4250-4261.
70. Iyer A, Pahar B, Boudreaux M, Wakamatsu N, Roy A, Chouljenko V, Baghian A, **Apetrei C**, Marx PA & Kousoulas K. Recombinant vesicular stomatitis virus-based West Nile vaccine elicits strong humoral and cellular immune responses and protects mice against lethal challenge with the virulent West Nile virus strain LSU-AR01. *Vaccine*, 2009; 27: 893-903.
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 72. Gautam R, Gaufin T, Gautam A, Butler I, Barnes M, Mandell D, Pattison M, Macfarland J, Monjure C, Tatum C, Pandrea I, and **Apetrei C**. SIVrcm, a unique CCR2-tropic virus, selectively depletes effector memory CD4+ T-cells in pigtailed macaques through rapid co-receptor expansion *in vivo*. *J Virol*, 2009; 83: 7894-7908.
 73. Sodora DL, Allan JS, **Apetrei C**, Brenchley JM, Douek DC, Else JG, Estes JD, Hahn BH, Hirsch VM, Kaur A, Kirchhoff F, Muller-Trutwin M, Pandrea I, Schmitz JE, Silvestri G. Towards an AIDS vaccine: lessons from natural SIV infections of African nonhuman primate hosts. *Nat Med* 2009; 15: 861-865.
 74. Beaumier CM, Harris LD, Goldstein S, Klatt NR, Whitted S, McGinty J, **Apetrei C**, Pandrea I, Hirsch VM, Brenchley JM. Down regulation of CD4 by memory CD4+ T cells *in vivo* renders African green monkeys resistant to progressive *SIVagm* infection. *Nat Med* 2009, 15; 879-885.
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 76. Gaufin T, Pattison M, Gautam R, Stoulig C, Dufour J, MacFarland J, Mandell D, Tatum C, Marx MH, Ribeiro RM, Montefiori D, **Apetrei C**, & Pandrea I. Effect of B cell depletion on viral replication and clinical outcome of SIV infection in a natural host. *J Virol*, 2009; 83: 10347-10357.
 77. Pandrea I, & **Apetrei C**. Where the wild things are: Pathogenesis of SIV infection in African nonhuman primate hosts. *Curr HIV/AIDS Rep*, 2010: 7: 28-36.
 78. Gaufin T, Ribeiro RM, Gautam R, Dufour J, Mandell D, **Apetrei C**, & Pandrea I: Experimental depletion of CD8⁺ cells in acutely SIVagm-infected African green monkeys results in increased viral replication. *Retrovirology* 2010; 7: in press.
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76. Mandell D, Gaufin T, Gautam R, Sandler N, Douek D, **Apetrei C**, & Pandrea I: A Single Serial Passage of SIVagm.sab in Pigtailed Macaques Results in a Dramatic Increase in Pathogenicity of Infection. *27th Annual Symposium on Nonhuman Primate Models for AIDS*, Boston Oct 2009; Abstr. 64.

PRESENTATIONS at SCIENTIFIC/PROFESSIONAL MEETINGS, EXTERNAL LECTURES, SEMINARS

Presentations

1. **Apetrei C**. Horizontal HIV-1 infection in nursed children from NE Romania. Present status and future evolutions of the epidemic. *VIII-th International Symposium of the Infections in the Infections in the Immunocompromise Host Society*. Davos, Switzerland, June 1994; Abstr. 134.
2. **Apetrei C** & Duca M. HIV-1 infection epidemic in Northeast Romania. Present status and further possible evolution. *XI-th International Conference on AIDS*, Vancouver, July 7-12, 1996. Poster Discussion Session: Epidemiology and Prevention in Central and eastern Europe. TuC. 203.
3. Souquière S, Roques P, Ayoub A, Robertson DL, **Apetrei C**, Müller-Trutwin MC, Barré-Sinoussi F, Nerrienet E & Simon F. The five newly derived HIV-1 group N strains cluster together in the HIV-1/SIVcpz lineage. *XIIIth International Conference on AIDS*, Durban, South Africa; July 2000: MoA166.

4. **Apetrei C**, Souquière S, Makuwa M, Rouquet P, Damond F, Bedjabaga I, Müller-Trutwin MC & Simon F. Primate lentivirus survey based on synthetic peptides analyses. *XIIIth International Conference on AIDS*, Durban, South Africa; July 2000: WeA1229.
5. Makuwa M, Souquière S, Niangi MT, Rouquet P, **Apetrei C** & Simon F. HIV variants and rapid tests for HIV infection diagnosis. *XIIIth International Conference on AIDS*, Durban, South Africa; July 2000: MoA108.
6. **Apetrei C**, Pandrea I, Montefiori D, Ribka E, Hunter M, Lackner AA, Veazey RS & Marx PA. SIVsm derived from naturally infected sooty mangabeys is not intrinsically highly pathogenic for rhesus macaques. *22nd Annual Symposium on Nonhuman Primate Models for AIDS*, Nov. 2004, San Antonio, Texas .
7. **Apetrei C**, Kaur A, Lerche NW, Metzger M, Pandrea I, Hardcastle J, Fakelstein S, Bohm R, Traina-Dorge V, Williams T, Staprans S, Plauche G, Veazey R, McClure H, Lackner AA, Gormus B, Silvestri G, Robertson DL, & Marx PA. Molecular epidemiology of SIVsm in primate centers in the United States over a 30 year period. Consequences for diagnostic and monitoring of SIVsm infection. *Keystone Symposia: HIV Vaccines: Current Challenges and Future Prospects (X8)*; Banff, Canada, April 2005. Abstr. # 108.
8. **Apetrei C**, Pandrea I, Montefiori D, Ribka E, Hunter M, Lackner AA, Veazey RS & Marx PA. SIVsm derived from naturally infected sooty mangabeys is not intrinsically highly pathogenic for rhesus macaques. *Keystone Symposia HIV Pathogenesis (X7)*. Banff, Canada, April 2005. Abstr. # 106.
9. **Apetrei C**, Robertson DL, Silvestri G, Pandrea I, Metzger M, Katz N, Hardcastle J, Kaur A, Veazey RS, Staprans S, Gormus B, Lerche NW, Lackner AA, Marx PA. SIVsm diversity in Primate Centers in the US as a model for HIV-1 group M diversity. *8th International Workshop on HIV Dynamics and Evolution*, Cleveland, Ohio, April 2005.
10. **Apetrei C**. Molecular epidemiology of SIVsm in primate centers in the US unravels the origin of SIVmac and SIVstm. *HIV Vaccine Trials Network (HVTN) 10th Semi-Annual Full Group Meeting (Primate models mini-symposium)*. Washington, DC, May 2005 (Invited speaker).
11. **Apetrei C**, Silvestri G, Onanga R, Marx PA, and Pandrea I. SIV dynamics in African non-human primate hosts: common patterns and species-specific differences. *9th International Workshop on HIV Dynamics and Evolution*, Woods Hole, MA, April 2006.
12. **Apetrei C**, Gautam R, Ribeiro RM, Gaufin T, Pattison M, Carter AC, Stoulig C, Barnes M, Monjure C, Aye P, Silvestri G, Lackner AA, Marx PA, Perelson AS & Pandrea I. *AIDS Vaccine 2007, August 2007, Seattle, WA*. Abstr. 0A06- Acute intestinal CD4⁺ T-cell depletion is not predictive of SIV virulence. 05.
13. **Apetrei C**, Gautam R, Ribeiro RM, Gaufin T, Pattison M, Carter AC, Stoulig C, Barnes M, Monjure C, Aye P, Silvestri G, Lackner AA, Marx PA, Perelson AS & Pandrea I. Acute intestinal CD4⁺ T-cell depletion is not predictive of SIV virulence. *25th Annual Symposium on Nonhuman Primate Models of AIDS. Sept 2007, Monterey CA*. Abstr. # 14.
14. **Apetrei C**, Gautam R, Gaufin T, Ribeiro R, Pattison M, Barnes M, Monjure C, Perelson A, Silvestri G, & Pandrea I. HIV pathogenesis: Viral blitzkrieg or 10 years' war. *15th Conference on Retroviruses and Opportunistic Infections*; Boston, MA, February 2008. Abstr. #372 (Poster Discussion Session 11).
15. Pandrea I, Coleman C, Gaufin T, Gautam R, Pattison M, Monjure C, Lackner A, & **Apetrei C**. Experimentally induced immune activation in natural hosts of SIV results in significant increases in

viral replication. *Keystone Symposia, HIV Pathogenesis*; Banff, Canada, March 2008. Workshop 1: Pathogenic and Non-Pathogenic Pathways.

16. **Apetrei C**, Gautam R, Ribeiro RM, Gaufin T, Pattison M, Carter AC, Stoulig C, Barnes M, Monjure C, Aye P, Silvestri G, Lackner AA, Marx PA, Perelson AS & Pandrea I. Acute intestinal CD4+ T-cell depletion is not predictive of SIV virulence. *15th HIV Dynamics and Evolution Meeting, Santa Fe, NM, April 2008*
17. **Apetrei C**, Gaufin T, Gautam R, Hirsch VM, Lewis M, Brenchley JM & Pandrea I: SIVagm infection in patas monkeys (*Erythrocebus patas*). Host adaptation to SIV infection may result in virus extinction. *27th Annual Symposium on Nonhuman Primate Models for AIDS*, Boston Oct 2009; Abstr. 20.
18. **Apetrei C**: Natural resistance to lentiviral infection: Lessons from animal models. *International Symposium on Natural Immunity to HIV*, Nov 2009, Winnipeg, Manitoba, Canada.

Seminars

1. LSU School of Veterinary Medicine, Baton Rouge, June 2004: SIVsm pathogenesis in naturally-infected sooty mangabeys (SMs) and experimentally-infected heterologous species.
2. New Iberia Research Center, New Iberia, May 2004: SIVsm pathogenesis in naturally-infected sooty mangabeys (SMs) and experimentally-infected heterologous species.
3. Tulane University, Dept. of Tropical Medicine, February 2005: SIVsm pathogenesis in naturally-infected sooty mangabeys (SMs) and experimentally-infected heterologous species.
4. Colorado State University, School of Veterinary Medicine, Fort Collins, CO, May 2005: The return of the SIVmac.
5. National Medical Council of Romania, Sept 2005: HIV Diversity and HIV resistance to ARVs, lectures, Thesaloniki, Greece.
6. Yerkes National Primate Research Center, Atlanta, GA, November 2005: SIVsm diversity in Primate Centers in the US as a model for HIV-1 group M diversity.
7. Louisiana State University, School of Veterinary Medicine, June 2007: The Hitchhacker Guide to SIV Pathogenesis.
8. University of Pennsylvania, School of Medicine, October 2007: Acute intestinal CD4⁺ T-cell depletion is not predictive of SIV virulence. **Invited Lecture** (NHP Symposia).
9. Louisiana State University, School of Medicine, Department of Pharmacology, November 2007: SIVsmm diversity in Primate Centers in the US as a model for HIV-1 group M diversity.
10. University of Pittsburgh, Center for Vaccine Research, Jan 2008: SIVsmm diversity in primate centers in the US as a model for HIV-1 group M diversity.
11. Vaccine Research Center, NIAID/NIH, March 2009: Episode VI: Return of the SIV.

Letters

1. Iancu L, **Apetrei C** & Duca M. Prevalence of anti-hepatitis C antibodies in blood donors in Moldavia (Northeast Romania). *Hepatology Rapid Literature Review* 1994, **24**: 8-9.
2. **Apetrei C**, Buzdugan I, Mitroi I, Iancu L & Duca M. Nosocomial HIV-1 transmission and primary prevention in Romania. *Lancet* 1994, **344**: 1028-1029.
3. **Apetrei C**, Descamps D, Panzaru C, Duca M, Simon F & Brun-Vezinet F. Plasma HIV-1 load and nosocomial transmission in Romanian children. *AIDS* 1995, **9**: 977.

4. Elharti E, Elaouad R, Amzazi S, Himmich H, Elhachimi Z, **Apetrei C**, Gluckman JC, Simon F & Benjouad A. HIV type 1 diversity in Morocco. *AIDS* 1997, 11: 1781-1783.
5. Marcellin AM, **Apetrei C**, Descamps D, Dupin N, Simon F & Calvez V. Parenteral transmission of Kaposi sarcoma herpes virus. *AIDS* 1998, 12: 2351.
6. **Apetrei C**, Tamalet C & Simon F. Modification de la réponse anticorps anti-VIH après trithérapie précoce. *Virologie* 1998, 2: 67-68.
7. Makuwa M, Souquière S, **Apetrei C**, Tevi-Benissan C, Bedjabaga I & Simon F. HIV prevalence and strain diversity in Gabon: the end of a paradox. *AIDS* 2000, 14: 1275-1276.
8. **Apetrei C** & Marx PA. Arguments against simian retroviral zoonoses. *Lancet* 2004, 364: 137-138.

PROFESSIONAL ACTIVITIES

Teaching

Year	Course Title
1991 - 1999	Microbiology (Virology and Bacteriology) seminars for the third, fifth and sixth semester students, "Gr. T. Popa" University of Iasi, Romania
1993 - 1999	Director of Thesis for the MD degree, "Gr. T. Popa" University of Iasi, Romania
1994 - 1999	Virology seminars for Residents in Microbiology, "Gr. T. Popa" University of Iasi, Romania
1998 - 1999	Virology lectures for students
1998 - 1999	Virology lectures for Residents in Microbiology, "Gr. T. Popa" University of Iasi, Romania
2005 - 2009	Lectures for the Emerging Infectious Diseases Class, Tulane University

RESEARCH

Active

NIH RO1 AI065325 (P.I.:Apetrei)	Effort: 20%	2006 - 2010
Title: "Pathogenesis of new SIVsm lineages in rhesus macaques"		\$2,120,000
NIH RO1 AI064066 (P.I.: Pandrea)	Effort: 10%	2005 - 2011
Title: "Pathogenesis of SIV in African green monkeys"		\$250,000
Role: Co-Principal Investigator		
NIH RR025781 (P.I.: Apetrei/Pandrea)	Effort: 20%	2009 - 2011
Title: "New Animal Model for Controlled Infection"		\$

Pending

R01AI090603: **New strategy to interrupt HIV breastfeeding transmission** (Apetrei, Cristian; Pandrea, Ivona, MPI), In response to RFA AI09-037-Highly Innovative Tactics to Interrupt Transmission of HIV (HIT-IT) (RO1)

R01AI090749: **Production and characterization of new SIVsmm challenge stocks for AIDS vaccines** (Apetrei, Cristian, PI) in response to RFA AI09-024- Basic HIV Vaccine Discovery Research (R01)

PO1: **Novel SIVsmm strains for analysis of mucosal transmission and vaccine protection** (Shaw, George, PI; Apetrei, Cristian, PI project 1: Mucosal transmission and pathogenicity of novel SIVsm virus strains), In response to RFA-09-134-HIVRAD (PO1) scored 38.

SERVICE

Director Pathogen Detection and Quantification Core at the TNPRC (includes two components: Serological diagnostic for the SPF colony and Real-time PCR quantification).

TNPRC: User's Group Committee; Animal Allocation Committee

Reviewer

Year	Journal
1998 - present	AIDS Journal
1999 - present	Emerging Infectious Diseases
2003 - present	Timisoara Medical Journal
2004 - present	Journal of Medical Primatology
2005 - present	Journal of Virology
2005 - present	Journal of Immunology
2006 - present	Clinical and Vaccine Immunology
2006 - present	Current HIV Research
2006 - present	Retrovirology
2006 - present	Journal of Leukocyte Biology
2006 - present	Comparative Medicine
2006 - present	Pediatrics
2007 - present	BMC Genomics
2007 - present	Future Virology
2007 - present	Virology
2007 - present	Dev. Comp. Immunol.
2009 - present	Journal of Clinical Investigations

Editorial boards

Year	Journal
2005 - present	Current HIV Research
2005 - present	Journal of Medical Primatology
2010 - present	Virology
2010 - present	HIV Sequence Database