

## **CURRICULUM VITAE**

**NAME:** Ivona Vasile-Pandrea

**CITIZENSHIP:** Romanian

**BUSINESS ADDRESS:** Center for Vaccine Research  
University of Pittsburgh  
Biomedical Science Tower 3  
3501 Fifth Avenue  
Pittsburgh, PA 15261

**BUSINESS PHONE:** (412) 624-3242

**BUSINESS FAX:** (412) 624-4440

**EMAIL ADDRESS:** [pandrea@pitt.edu](mailto:pandrea@pitt.edu)

## **EDUCATION AND TRAINING**

### **Graduate**

<b>Dates Attended</b>	<b>Name and Location of Institution</b>	<b>Degree Received and Year</b>	<b>Major Subject</b>
1992	School of Medicine, "Grigore T. Popa" University of Iasi Romania	M.D., 1992	Medicine
1993 - 1997	School of Medicine, "Grigore T. Popa" University of Iasi Romania		Resident in Pathology
1994	University Paris Sud, France	Master Degree, 1994	Molecular Pathology
1995 - 1996	"Paul Brousse" Hospital, Villejuif, France		Resident in Pathology
1997	School of Medicine, "Carol Davilla" University of Bucarest, Romania	1997	Board Certified Pathologist
1999	School of Medicine, "Grigore T. Popa" University of Iasi Romania	Ph.D., 1999	Pathology, Colorectal cancer
2000 - 2001	Retrovirology Laboratory, International Medical Research Center, Franceville, Gabon	Postdoctoral Fellow	Virology, Immunology, HIV/SIV diversity and pathogenesis, natural hosts of SIV
2001 - 2002	Microbiology Department, Tulane National Primate Research Center	Postdoctoral Fellow	Microsporidia pathogenesis
2002 - 2003	Division of Comparative Pathology, Tulane National Primate Research Center	Postdoctoral Fellow	SIV pathogenesis in progressive hosts

## **APPOINTMENTS and POSITIONS**

### **Academic**

<b>Years Inclusive</b>	<b>Name and Location of Institution or Organization</b>	<b>Title or Position/Rank</b>
2013	Department of Pathology and Center for Vaccine Research, School of Medicine, University of Pittsburgh, Pittsburgh, PA	Professor of Pathology
2013	Department of Infectious Disease and Microbiology, School of Public Health, Pittsburgh, PA	Professor of Infectious Diseases and Microbiology
2011 - 2013	Center for Vaccine Research, and Department of Pathology, School of Medicine, University of Pittsburgh, Pittsburgh, PA	Associate Professor (tenure track)
2009 – 2011	Center for Vaccine Research, and Department of Pathology, School of Medicine, University of Pittsburgh, Pittsburgh, PA	Visiting Associate Professor
2006 - 2009	Division of Comparative Pathology, Tulane National Primate Research Center and Department of Pathology, School of Medicine, Tulane University	Associate Professor (tenure track)
2005 - 2006	Division of Comparative Pathology, Tulane National Primate Research Center and Department of Pathology, School of Medicine, Tulane University	Assistant Professor (tenure track)
2003 - 2005	Division of Comparative Pathology, Tulane National Primate Research Center and Department of Pathology, School of Medicine, Tulane University	Clinical Assistant Professor
1999 - 2001	Department of Pathology, School of Medicine, "Gr.T.Popa" University of Iasi, Romania and Laboratory of Tumoral Immunology, "Sf. Spiridon" Hospital Iasi	Assistant Professor and Associate Researcher
1997 - 1998	Department of Pathology, Paris-Sud University, France	Foreign Assistant Professor
1996 - 1998	Department of Pathology, School of Medicine, "Grigore T. Popa" University of Iasi Romania	Assistant Professor
1992 - 1996	Department of Pathology, School of Medicine, "Grigore T.Popa" University of Iasi Romania	Instructor

## **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

<b>Year</b>	<b>Organization</b>
2006 - present	American Society for Microbiology
2007 - present	American Society of Immunology

## **HONORS AND AWARDS**

<b>Year</b>	<b>Title of Award</b>
1995 - 1996	"Tempus" Fellowship, University Paris-Sud, France
1996 - 1998	Fellowship from the Association pour la Recherche contre le Cancer
2002	Young Scientist Travel Grant offered by NIH for attending the XIV International AIDS Conference Barcelona, Spain, July 7-12, 2002
2003	International Award offered by 2 <sup>nd</sup> IAS Conference of HIV Pathogenesis and Treatment
2005	Promise in Research, Tulane University Award

2005	Leadership in Research, Tulane University Award
2006	TUHSC Auxiliary Research Career Development Award
2007	Louisiana Legislative Women's Caucus Women of Excellence Awards nominee (category Education & Research)

## **PUBLICATIONS**

### **Peer Reviewed Journals**

1. **Pandrea I**, Zugun F, Tarcoveanu E, Diaconu C, Mihailovici MS, Carasevici E. Flow-cytometry DNA index of colorectal carcinomas. *Rev Med Chir Soc Med Nat (Iasi)* 1995, 99: 112-5
2. **Pandrea I**, Mihailovici MS, Carasevici E, Dragomir C, Tarcoveanu E, Szekely AM, Reynes M. An immunohistochemical study of p53 protein on colorectal carcinomas. *Rev Med Chir Soc Med Nat (Iasi)* 1996, 100: 171-178.
3. Cretu O, **Pandrea I**, Cretu I, Mihailovici MS, V. Fluture. Liver transplantation. I: Its history, The indications, Clinical efficacy. *Chirurgia (Bucarest)* 1997, 92: 399-412.
4. **Pandrea I**, Cretu O, Apetrei C, Cretu I, Fluture V, Mihailovici M. The rejection of hepatic graft. *Chirurgia (Bucarest)* 1998, 93: 375-386.
5. Cretu O, **Pandrea I**, Cretu I, Fluture V. Liver transplantation. II. A rapid technique for taking a liver graft in the context of taking multiple organs from a donor in a state of brain death. *Chirurgia (Bucarest)* 1998, 93: 119-126.
6. 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.
7. **Pandrea I**, Sebah M, Barbat A, Dragomir C, Carasevici E, Mihailovici S, Reynès M. p53 protein expression, high proliferative activity and aneuploidy in colorectal carcinomas: are they valid anatomo-pathological aggression factors? *Journal of Balkan Union of Oncology* 1998, 2: 349-356.
8. Lesuffleur T, Violete S, **Pandrea I**, Dussaulx E, Barbat A, Muleris M, Zweibaum A. Resistance to high concentrations of methotrexate and 5-fluouracil of differentiated HT-29 colon cancer cells is restricted to cells of enterocytic phenotype. *Int J Cancer* 1998, 75: 383-392.
9. Barbat A, **Pandrea I**, Cambrier D, Zweibaum A, Lesuffleur T. Resistance to methotrexate of the human colon carcinoma cell line HCT-8 results in the selection of cells with enterocytic differentiation features. *Int J Cancer* 1998, 75: 731-737.
10. **Pandrea I**, Carrière V, Barbat A, Cambier D, Dussaulx E, Lesuffleur T, Rousset M, Zweibaum A. Postmitotic differentiation of colon carcinoma Caco-2 cells does not prevent reentry in the cell cycle and tumorigenicity. *Experimental and Molecular Pathology*, 2000: 69, 37-45.
11. Bras-Gonçavales RA, Pocard M, Formento JL, Poirson-Bichat F, Pinieux G, **Pandrea I**, Rogé P, Arvelo F, Ronco G, Villa P, Arnaud C, Milano G, Lesuffleur T, Duirllaux B, Poupon MF. Stable butyrate derivatives potentiate thymidylate synthase inhibitors in human colorectal cancer xenografts by modulation of DNA synthesis pathways. *Gastroenterology* 2001: 120, 874-888.
12. 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.

13. **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.
14. **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.
15. **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.
16. Onanga R, Kornfeld C, **Pandrea I**, Estaquier J, Souquière S, Rouquet P, Poaty Mavoungou V, M'Boup S, Barré-Sinoussi F, Simon F, Apetrei C, Roques P, & Müller-Trutwin MC. High levels of viral replication contrasts with only transient changes in CD4<sup>+</sup> and CD8<sup>+</sup> cell numbers during the early phase of experimental infection with simian immunodeficiency virus SIVmnd-1 in *Mandrillus sphinx*. *J Virol* 2002, 76: 10256-10263.
17. Violette S, Festor E, **Pandrea-Vasile I**, Mitchell V, Adida C, Dussaulx E, Lacorte JM, Chambaz J, Lacasa M, Lesuffleur T. *Reg IV* a new member of the regenerating gene family is overexpressed in colorectal carcinomas. *Int J Cancer* 2003, 103: 185-193.
18. Veazey R, Ling B, **Pandrea I**, McClure H, Lackner A, Marx P. Decreased CCR5 expression on CD4<sup>+</sup>T cells of SIV-infected mangabeys. *AIDS Res Hum Retroviruses* 2003, 19: 227-233.
19. Lifson JD, Piatak M Jr, Cline AN, Rossio JL, Purcell J, **Pandrea I**, Bischofberger N, Blanchard J, Veazey RS. Transient early post-inoculation antiretroviral treatment facilitates controlled infection with sparing of antiviral immune responses and CD4<sup>+</sup>T cells in gut-associated lymphoid tissues in SIV-infected macaques, but not resistance to rechallenge. *J Med Primatol* 2003, 32: 201-210.
20. Veazey RS, Lifson JD, Schmitz JE, Kuroda MJ, Piatak M Jr, **Pandrea I**, Purcell J, Bohm R Jr, Blanchard J, Williams KC, Lackner A. Dynamics of SIV-specific CTL responses in tissues. *J Med Primatol* 2003, 32: 194-200.
21. Veazey RS, Lifson J, **Pandrea I**, Purcell J, Piatak M, Lackner AA. Simian immunodeficiency virus (SIV) infection in neonatal macaques. *J Virol* 2003, 77: 8783-8792.
22. Veazey RS, Klasse PJ, Ketas TJ, Reeves JD, Piatak M Jr, Kunstman K, Kuhmann SE, Marx PA, Lifson JD, Dufour J, Mefford M, **Pandrea I**, Wolinsky SM, Doms RW, DeMartino JA, Siciliano SJ, Lyons K, Springer MS, Moore JP. Use of a small molecule CCR5 inhibitor in macaques to treat simian immunodeficiency virus infection or prevent simian-human immunodeficiency virus infection. *J Exp Med*. 2003, 198: 1551-1562.
23. **Pandrea I**, Onanga R, Kornfeld C, Rouquet P, Bourry O, Clifford S, Telfer PT, Abernethy K, White LT, Ngari P, Muller-Trutwin M, Roques P, Marx PA, Simon F, Apetrei C. High levels of SIVmnd-1 replication in chronically infected *Mandrillus sphinx*. *Virology*. 2003, 317: 119-127.
24. 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 200-2001 based on phylogenetic analysis of *pol* sequences from patient failing antiretroviral therapy. *AIDS Res Hum Retroviruses*. 2003, 19: 1155-1161.
25. 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.

26. 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.

27. **Pandrea I**, Mittleider D, Brindley PJ, Didier ES, Robertson D. Phylogenetic relationship of methionine aminopeptidase 2 among Encephalitozoon species and genotypes of microsporidia. *Molecular and Biochemical Parasitology* 2005 ; 140/2:141-152.
28. Chandhasin C, Coan PN, **Pandrea I**, Grant CK, Lobelle-Rich PA, Puetter A and Levy LS. The unique LTR and SU Gene of FeLV-945 as determinants of disease outcome. *J Virol* 2005, 79: 5278-5287.
29. 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.

30. **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.
31. 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 primate centers in the United States over a 30 years period. Consequences for diagnostic and monitoring of SIVsm infection. *J Virol* 2005, 79: 8991-9005.
32. Clejan S, Mandrea E, **Pandrea V.I.**, Dufour J, Japa S, Veazey RS. Immune responses induced by intranasal imiquimod and implications for therapeutics in rhinovirus infections. *J Cell Mol Med* 2005, 9: 457-461.
33. 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.
34. Dunham R, Pagliardini P, Gordon S, Sumpter B, Engram J, Moanna A, Lawson B, McClure HM, Xian-Xu H, Ibegbu C, Katz N, **Pandrea I**, Apetrei C, Sodora DL, Feinberg MB, Staprans SI, & Silvestri G. The AIDS-resistance of naturally SIV-infected sooty mangabeys is independent of cellular immunity to the virus. *Blood* 2006, 108: 209-217.
35. Goldstein S, Brown CR, Ourmanov I, **Pandrea I**, Buckler-White A, Erb C, Nandi JS, Foster GJ, Autissier P, Schmitz JE & Hirsch VM. SIVagmVer replicates more efficiently in vervet than sabaeus African green monkeys but both maintain peripheral CD4+ T cells. *J Virol* 2006; 80: 4868-4877.
36. **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 as a new model for SIV infection in natural hosts. *J Virol* 2006; 80: 4858-4867.
37. **Pandrea I**, Silvestri G, Onanga R, Veazey RS, Marx PA, Hirsch V, & Apetrei C. SIV replication dynamics in African nonhuman primate hosts: Common patterns and species-specific differences. *J. Med Primatol*, 2006: 35: 194-201.
  38. Ploquin MJY, Desoutter JF, Santos PR, **Pandrea I**, Diop OM, Hosmalin A, Butor C, Barre-Sinoussi F & Muller-Trutwin MC. Distinct expression profiles of TGF- $\beta$ 1 signaling mediators in pathogenic and non-pathogenic SIV infection. *Retrovirology*, 2006: 3: 37.
  39. **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: 35:1069-76.
- Comment in *Blood*: Roeder M and Mattapallil J: CCR5 and HIV: The less, the better. *Blood* 2007; 109: 854.
40. Butler IF, **Pandrea I**, Marx PA, Apetrei C. HIV genetic diversity: Biological and public health consequences. *Current HIV Res* 2007: 5: 25-47.
  41. Gautam R, 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.
  42. 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: 81:7913-23.
  43. Milush JM, Stefano-Cole K, Schmidt K, Durudas A, **Pandrea I**, Sodora DL. Mucosal innate immune response associated with a timely humoral immune response and slower disease progression following oral transmission of SIV in rhesus macaques. *J Virol*. 2007: 81:6175-86.
  44. 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: 79:3026-34.
  45. **Pandrea I**, Gautam R, Ribeiro R, Brenchley JM, Barbercheck J, Butler IF, Rasmussen T, Marx PA, Silvestri G, Lackner AA, Perelson A, Douek DC, Veazey RS & Apetrei C. Acute loss of intestinal CD4+ T cells is not predictive for SIV virulence. *J Immunol*. 2007: 79:3035-46.
  46. Silvestri G, Paiardini M, **Pandrea I**, Lederman MM, Sodora DL. Understanding the benign nature of SIV infection in natural hosts. *J Clin Invest*. 2007 117: 3148-3154.
  47. 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.
  48. 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.

49. **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 SIVagm Dynamics in African Green Monkeys. *J Virol* 2008; 82: 3713-3724.
50. Paiardini M, Frank I, Apetrei C, **Pandrea I**, & Silvestri G. Mucosal immune dysfunction in AIDS pathogenesis. *AIDS Reviews* 2008; 10: 36-46.
51. **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.
52. **Pandrea I**, Sodora DL, Silvestri G, & Apetrei C. Into the wild: Simian immunodeficiency virus (SIV) infection in natural hosts. *Trends Immunol*; 2008; 29: 419-28.
53. **Pandrea I**, Gaufin T, Brenchley JM, Gautam R, Monjure C, Gautam A, Coleman C, Lackner AA, Ribeiro RM, Douek DC, & Apetrei C. Cutting edge: Experimentally induced immune activation in natural hosts of simian immunodeficiency virus induces significant increases in viral replication and CD4+ T cell depletion. *J Immunol.* 2008, 181: 6687-91.
54. 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.
55. Souquière S, Onanga R, Makuwa M, **Pandrea I**, Ngari P, Rouquet P, Bourry O, Kazanji M, Apetrei C, Simon F, & Roques P. SIVmnd-1 and SIVmnd-2 have different pathogenic potentials in rhesus macaques upon experimental cross-species transmission. *J Gen Virol*, 2009; 90: 488-499.
56. **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.
57. 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 ability of humoral immune responses in control of viremia during infection with SIVsmmD215 strain. *Blood*, 2009; 113: 4250-4261.
58. 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.
59. 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. (\* all authors contributed equally to this manuscript)
60. 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.
61. 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.
62. Favre D, Lederer S, Kanwar B, Ma Z-M, Proll S, Proll S, Kasakowi Z, Mold J, Swainson L, Barbours JD, Baskin CR, Palermo R, **Pandrea I**, Miller CJ, Katze GK, & McCune JM. Critical loss

- of the balance between Th17 and T regulatory cell populations in pathogenic SIV infection. *PLoS Pathog* 2009; 5: e1000295.
63. Klatt NR, Shudo E, Ortiz AM, Engram JC, Paiardini M, Lawson B, Miller MD, Else J, **Pandrea I**, Estes JD, Apetrei C, Schmitz JE, Ribeiro RM, Perelson AS, & Silvestri G. CD8<sup>+</sup> lymphocytes control viral replication in SIVmac239-infected rhesus macaques without decreasing the lifespan of productively infected cells. *Plos Pathogens*, 2010; 6: e1000747.
  64. **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.
  65. **Pandrea I**, Amedee A, Bagby G & Nelson S: Alcohol's role in HIV transmission and disease progression. *Alcohol Research & Health* 2010; 33:203-218.
  66. Apetrei C, Gaufin T, Gautam R, Vinton C, Hirsch VM, Lewis M, Brenchley JM, & **Pandrea I**: Pattern of SIVagm infection in patas monkeys suggests that host adaptation to SIV infection may result in resistance to infection and virus extinction. *J Infect Dis*; 2010; 201:S371-S376.
  67. Harris LD, Tabb B, Sodora DL, Paiardini M, Klatt NR, Douek DC, Silvestri G, Muller-Trutwin M, **Pandrea I**, Apetrei C, Hirsch VM, Lifson J, Brenchley JM, & Estes JD: Downregulation of robust acute type I IFN responses distinguishes nonpathogenic SIV infection of natural hosts from pathogenic SIV infection of rhesus macaques. *J Virol* 2010; 84: 7886-7891.
  68. Gaufin T, Ribeiro RM, Gautam R, Dufour J, Mandell D, Apetrei C, **Pandrea I**. Experimental depletion of CD8<sup>+</sup> cells in acutely SIVagm-Infected African green monkeys results in increased viral replication. *Retrovirology*; 2010; 7: 42.
  69. Gnanadurai CW\*, **Pandrea I**, Parrish NF, Kraus MH, Learn GH, Salazar MG, Gautam R, Apetrei C, Hahn BH, & Kirchhoff F: Genetic identity and biological phenotype of a transmitted/founder virus representative of non-pathogenic simian immunodeficiency virus infection in African green monkeys. *J Virol* 2010; 84: 12245-12254. (\* equally contributed to this manuscript).
  70. Vinton C, Klatt NR, Harris LD, Briant JA, Sanders-Beer BE, Herbert R, Woodward R, Silvestri G, **Pandrea I**, Apetrei C, Hirsch VM, & Brenchley JM: Maintenance of CD4-like immunological function by CD4neg T cells in multiple natural hosts for SIV. *J Virol* 2011; 85: 8702-8708.
  71. Paiardini M, Cervasi B, Reyes-Aviles E, Micci L, Ortiz AM, Chahroudi A, Vinton C, Gordon SN, Bosinger SE, Francella N, Hallberg PL, Schlub T, Chan ML, Riddick NE, Collman RG, Apetrei C, **Pandrea I**, Else J, Munch J, Kirchhoff F, Davenport MP, Brenchley JM, Silvestri G: Reduced CCR5 up-regulation upon activation limits virus replication in central-memory CD4<sup>+</sup> T cells of SIV-infected sooty mangabeys. *Nature Medicine* 2011, 17: 830-836.
  72. **Pandrea I**, Gaufin T, Gautam R, Kristoff J, Mandell D, Montefiori DL, Keele BF, Ribeiro RM, Veazey RS & Apetrei C: Functional cure of SIVagm in rhesus macaques results in complete recovery CD4<sup>+</sup> T cells and is reverted by CD8<sup>+</sup> cell depletion. *Plos Pathogens*, 2011; 7: e1002170.
- Comment in Nature Medicine: Modeling the elite. Nat Medicine* 2011; 17: 1058.
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  70. Pandrea I, Landay A, **Apetrei C**: Therapeutic interventions to modulate microbial translocation, immune activation and cardiovascular comorbidities: Lessons from nonhuman primate models. Keystone Symposium on Immune Activation in HIV infection: Basic Mechanisms and Clinical Implications. Breckenridge, CO, April 2013. Abstr. 0403.
  71. Pandrea I, Landay A, **Apetrei C**: Therapeutic interventions to modulate microbial translocation, immune activation and cardiovascular comorbidities: Lessons from nonhuman primate models. Towards a Cure for HIV: From Pathogenesis to Eradication. Nobel Forum, Karolinska Institutet, Stockholm, Sweden. September 5–6, 2013



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## Poster Abstracts

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4. **Vasile-Pandrea I**, Souquière S, Dimitrienco V, Gheorghita S, Damond F, Simon F & Apetrei C. HIV-1 molecular epidemiology in former USSR Republic: Spread of Russian subtype A in Moldova. *XIII<sup>th</sup> International Conference on AIDS*, Durban, South Africa; July 2000: MoC2337.
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18. **Pandrea I**, Apetrei C, Dufour J, Dillon N, Poonia B, Diop O, Muller-Trutwin M, Bohm R, Marx PA, Lackner AA & Veazey RS. SIVagm.Sab infection in Caribbean African green monkeys. *22<sup>nd</sup> Annual Symposium on Nonhuman Primate Models for AIDS*, Nov. 2004, San Antonio, Texas.
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46. **Pandrea I**, Wilson C, Ribeiro R, Apetrei C, Landay A, Tracy: Coagulation and inflammation biomarkers correlate with disease progression in SIV infections. *XVIII International AIDS Conference*, Vienna, 18-23 July 2010.
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Pandrea I: CD39/CD73/Adenosine Pathway in Progressive vs Non-Progressive Infections CROI 2014, Boston MA, March 2014. Abstr. 327.

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54. Andrade BB, Schechter M, Francischetti I, He T, Apetrei C, Pandrea I, & Sereti I: The pathogenic role of tissue factor in HIV and progressive SIV infection. 20<sup>th</sup> International AIDS Conference, Melbourne, Australia; July 2014; Abstr. WEPE002.
55. Pandrea I, Kristoff J, Gaufin T, Gautam R, Ma D, Estes JD, Tracy R, Apetrei C, Bagby G, Nelson S: Increased immune activation and hypercoagulation after gut permeabilization in SIV-infected African green monkeys. 20<sup>th</sup> International AIDS Conference, Melbourne, Australia; Abstr. WEPE008.

### **Seminars and invited presentations**

1. Tulane University, Department of Pathology, September 2003. "SIV pathogenesis in African non-human primates."
2. National Medical Council of Romania, Sept 2005. "AIDS pathology and HIV pathogenesis, lectures." Thessaloniki, Greece.
3. Yerkes National Primate Research Center, Atlanta, GA, November 2005. "SIVagm pathogenesis in African green monkeys."
4. Yerkes National Primate Research Center, Atlanta, GA, November 2006. "CD4 T cell depletion in the intestine during the primary infection is not predictive for SIV virulence."
5. Tulane University, Microbiology Department, February 2007. "SIVagm pathogenesis in AGMs and Rhesus macaques."
6. Tulane University, School of Public Health and Tropical Medicine, March 2007. "SIVagm pathogenesis in non-human primates. A possible role of Tregs in inhibiting immune activation in natural hosts of SIV."
7. Uniformed Services University. Bethesda, Maryland. Department of Microbiology and Immunology, September 2007. "SIV pathogenesis in natural hosts. Results from African green monkeys."
8. University of Pennsylvania, School of Medicine, October 2007. "SIVagm pathogenesis in African green monkeys." Invited Lecture (NHP Symposia).
9. Louisiana State University, School of Medicine, Alcohol Research Center, November 2007. "SIVagm pathogenesis in African green monkeys."
10. University of Pittsburgh, June 2008, "SIV Pathogenesis in Natural Hosts."
11. Rush University, Department of Immunology, Feb. 2008. "SIVagm pathogenesis in African green monkeys."
12. University of Pittsburgh, Department of Pathology, Jan 2010. "Where the wild things are: SIV pathogenesis in the natural host".
13. Annual CFAR Symposium. Case Western Reserve University Cleveland/UHC Center for AIDS Research August 27-28, 2010. SIV mucosal transmission and early events in natural hosts.
14. University of Pittsburgh, Department of Experimental Pathology, Nov 2010. SIV pathogenesis.

15. University of Pittsburgh, Department of Immunology, Jan 2011. "Early events after mucosal SIVagm transmission".
16. University of Washington and Washington Research Primate Center, Feb 2011. "SIVagm pathogenesis in African green monkeys and beyond".
17. Aaron Diamond AIDS Research Center, Oct 2011. "Immune activation in the pathogenesis of AIDS"
18. HIV/SIV pathogenesis session, XIX International AIDS Conference Washington D.C. 22-27 July 2012: "Therapeutic interventions to reduce microbial translocation and immune activation"
19. Immune Activation in HIV Infection: Basic Mechanisms and Clinical Implications (D2), Keystone Symposia April 2013: "Modulation of Microbial Translocation impacts immune activation and inflammation"
20. Nobel Forum, Karolinska Institutet, [Stockholm](#) September 2013. Towards a cure for HIV: From Pathogenesis to Eradication: "Testing the role of microbial translocation in SIV immunopathogenesis".
21. Keystone Symposia 2015: Title to be determined

## **PROFESSIONAL ACTIVITIES**

### **Teaching**

<b>Year</b>	<b>Course Title</b>
1992 - 1999	Microscopic and macroscopic pathology seminars-for the third year medical students of the School of Medicine, "Gr.T.Popa" University of Iasi, Romania (12 hours/week for the entire year, 10 students/group, 240 students/year)
1996 - 2001	Director of thesis for the MD degree, "Gr.T.Popa" University of Iasi, Romania Mentor of 2 students
1998 - 1999	Pathology course for medical students, School of Medicine, "Gr.T.Popa" University of Iasi, Romania (4 hours per year, 180 students)
1998 - 1999	Pathology seminars for residents in Oncology, School of Medicine, "Gr.T.Popa" University of Iasi, Romania (6 hours per year, 10 residents)
1998 - 1999	Molecular biology techniques training for residents in Pathology, School of Medicine, "Gr.T.Popa" University of Iasi, Romania (6 hours per year, 14 residents)
2004-2009	Graduate Program in Biomedical Sciences of Tulane University Mentor /co-mentor of 2 undergraduate students, 4 PhD students and 2 postdoctoral fellows
2009-2011	IDM2003 - Host Responses to Microbial Infections Course: "HIV/SIV Pathogenesis", Graduate School of Public Health Pittsburgh, 2 hours, 20 students (2009), 2 hours, 20 students (2010), 2 hours, 21 students (2011), 20 students (2012)., 20 students (2013).
2010-2014	Moderator Module 3 for Foundations of Biomedical Science Conference, 8 students, 16 hours, each year

### **Students mentored**

#### **Undergraduate:**

Cristal Stoulig, summer student Tulane (continued to work as a tech in Pandrea's lab for one year until graduation) 2007-2008. Mentor. Cristal is currently a nurse.

Mathew Marx, summer student 2008 Tulane. Mentor. Mathew is currently a medical student at Tulane

University.

Daniel Mandel, rotation student 2008 Tulane. Co-Mentor. Daniel is currently a medical student at University of Massachusetts.

Naomi Louchouart, summer student, University of Pittsburgh, 2010. Mentor.

Thahn Nguyen, summer student, University of Pittsburgh, 2010. Mentor.

Kevin Rahetz, MVM student rotation, University of Pittsburgh, 2011. Co-Mentor. Kevin is currently a graduate student in Apetrei/Pandrea laboratory.

Hadega Aamer, MVM student rotation, University of Pittsburgh, 2011. Mentor.

Anthony Cilio, MVM student rotation, University of Pittsburgh, 2011. Mentor.

David Mertz, summer student, University of Pittsburgh, 2012, Mentor.

Dennis Vaysburg, summer student, University of Pittsburgh, 2012, Mentor.

Jenny Stock, Master student, School of Public Health, 2012, Mentor.

#### **PhD students:**

Joseph Barbercheck 2005-2008. Mentor. Tulane University. Joseph is currently the manager of the BSL-3 facility at Louisiana State University.

Natalia Katz 2005-2008. Co-mentor. Tulane University. Nathalia moved for family reasons and graduated at University of California. She is currently a postdoctoral fellow at Harvard University, Boston.

Thaidra Gauffin 2006-2009. Co-Mentor. Tulane University. Thaidra is currently a medical student at the Georgetown Medical School, Washington, DC.

Clint Coleman 2006-2008. Mentor. Tulane University. Clint is currently a postdoctoral fellow at Tulane University.

Kevin Rahetz 2011-. Co-Mentor. University of Pittsburgh

Jan Kristoff 2013. Mentor. School of Public Health. University of Pittsburgh.

Ben Pollichichio. 2013 Mentor. School of Public Health. University of Pittsburgh.

Jenny Stock, 2014 Mentor. School of Public Health. University of Pittsburgh.

#### **Postdoctoral fellows**

Rajeev Gautam 2004-2009. Co-Mentor. Tulane University. Rajeev is currently a junior faculty at NIH.

Aarti Gautam 2008-2009. Mentor. Tulane University. Aarti is a postdoctoral fellow at FDA.

David Kurt 2010-2011. Mentor. University of Pittsburgh. David moved for family reasons to the University of Maine.

Viskam Widjevardana 2010- 2012. Currently Viskam is an Assistant Professor, Japan.

George Sebastian Haret Richter 2010 – present. Mentor. University of Pittsburgh

#### **Young Investigators**

Donghzhu Ma 2010 – present. Co-Mentor. University of Pittsburgh

Egidio Brocca-Cofanno Jan 2013 - present. Mentor. University of Pittsburgh.

### **RESEARCH**

#### **Active**

NIH 1P01AI088564 (P.I.: Shaw). Effort 35% 2010 - 2015

Animal core (P.I., Pandrea)

Title: Novel SIVmm Strains for Analysis of Mucosal Transmission and Vaccine Protection

Total funds PO1: \$9,345,567

**Total funds: \$3,836,149**

R01 AI094604 (P.I. Shaw) Effort 5% 2014 - 2016

Title: Penile transmission and neutralization of pathogenic SIVsmm

This project is designed to develop and test the pathogenicity and neutralization of newly developed SHIVs and SIVsmm strains.

**Total funds: \$450,000**



NIH RO1 9R01HL117715-08 (P.I.: Pandrea) Effort: 25% 2012 - 2017  
 Title: Pathogenesis of SIV in African green monkeys and pigtail macaques  
**Total funds: \$3,601,918**

NIH: Bench to Bedside to (P.I. Pandrea) Effort 5% 2015 – 2017  
 Title: Targeting Tissue Factor in HIV/SIV Infection  
 This proposal which networks a multidisciplinary team of clinical, translational, and bench investigators is designed to investigate the involvement of TF-related pathway in inflammation and coagulation in HIV-infected patients.  
**Total funds: \$200,000**

NIH R24 (P.I.: Silvestri Guido, Yerkes) Effort 5% 2013 - 2017  
 Subcontract (P.I.,:Apetrei)  
 Title: Transcriptome Resources for Comparative Primate Models of Lentivirus Infection  
**Total funds: \$300,000**

NIH RO1 (P.I: Ribeiro, Los Alamos) Effort 15% 2014-2017  
 Subcontract (P.I.,: Pandrea)  
**Total funds: \$1,926,665**  
 Title: Quantifying immune versus viral killing of SIV infected and latently infected cells

NIH Bridging fund (P.I: Apetrei) Effort 10% 2013-2015  
 Role: Co-investigator  
 Title: Early events and determinants of oral SIV transmission in infant nonhuman primates  
**Total funds: \$378,000**

**Completed**

**Direct cost**

NIH RR025781 (P.I.: Pandrea/Apetrei) Effort: 10% 2009 - 2012  
 Title: "New Animal Model for Controlled Infection" \$1,300,000

NIH RR025781 (P.I.: Pandrea/Apetrei) Effort: 5% 2010 - 2012  
 ARRA supplement \$373,679

NIH RO1 AI064066-01 (P.I.: Pandrea) 2005 - 2012  
 Title: "Pathogenesis of SIV in African Green Monkeys"  
 Role: Principal Investigator \$1,018,255

NIH RO1 AI065325-01 (P.I.: Apetrei) 2006-2010  
 Title: "Pathogenesis of New SIVsm Lineages in Rhesus Macaques"  
 Role: Co Investigator \$1,849,309

NIH RO1 CA083823 (P.I.: Levy) 2007-2009  
 Title: "Selective Forces Operative in FeLV Infection"  
 Role: Co-Investigator \$1,750,000

LSU Alcohol Research Center – Pilot project (PI: Pandrea) 2007-2009  
 Title: "Alcohol and SIVagm pathogenesis in African green monkeys" \$100,000

RO1DE017541 (P.I: Sodora) 2007-2011  
 Title: Factors Influencing Oral Transmission of SIV

Role: Consultant	\$8,000.
NIH R21 AI069935-01 (P.I.: Pandrea)	2006-2008
Title: "T Regulatory Cells in Rhesus Macaques and Africal Green Monkeys"	\$275,000
Tulane Enhancement Grant (P.I.: Pandrea)	2006-2008
Title: "Identification of toll-like Receptor (TLR) Ligands That Are Able to Induce Immune Activation in SIV-infected African Green Monkeys"	\$100,000
NIH RO1 AI049080-05 (P.I.: Veazey, Ronald)	2001-2006
Title: "Mechanisms of CD4 Depletion and Proliferation in SIV"	\$1,250,000
Role: Co-Investigator	
ANRS Grant (With Dr. Michaela C. Muller-Trutwin, Pasteur Inst., Paris, France)	2000-2002
"Study of the Host Factors Related to the Evolution of Lentiviral Infection in AGMs"	€100,000
ANRS Grant (With Prof. Francois Simon, Virus Lab., Rouen, France)	2000-2002
Title: "Characterisation Virologique Des Deux Differentes Types de SIV Infectant Naturellement <i>Mandrillus sphinx</i> "	€200,000
ANRS Grant (With Dr. Pierre Roques, International Medical Research Center, Franceville, Gabon)	2001-2003
Title: "Vertical Transmission of SIV in <i>Mandrillus sphinx</i> . Modes, Prevalence, Physiopathology and Consequences for HIV Mother to Infant Transmission."	€200,000
World Bank Grant (With Professor Eugen Carasevici)	1996-1998
Title: "The Investigation of the Apoptosis in Breast Cancer"	\$500,000

## **SERVICE**

### **Clinical service**

1997 - 2000	Human Pathologist
2003 - 2006	Veterinary Pathologist
2010-	Research Pathologist (providing diagnostic and research pathology services for the CVR)

### **Reviewer**

#### **Scientific Journals**

2004	Blood Journal
2006	Journal of Infectious Diseases
2006	American Journal of Pathology
2006	Clinical and Vaccine Immunology
2008	Virology
2008	Journal of Immunology
2009	Journal of Virology
2009	Reviewer IAS AIDS Conference
2009	Journal of Antimicrobial Therapy
2010	Infection, Genetics and Evolution
2010	AIDS Research and Human Retroviruses
2010	BMC Microbiology
2010	The Open AIDS Journal
2011	PLoS ONE

2011 Expert Reviews  
 2012 African Journal of Microbiology Research

**Member of Review Editorial Boards**

2011 Frontiers in HIV and AIDS, a specialty of Frontiers in Immunology.

**Scientific Meetings**

2007-present Reviewer for the IAS “International AIDS Conference” and “HIV Pathogenesis and Treatment Conference”

**NIH**

Special Emphasis Panel, NCRR, Sep 2009.  
 Special Emphasis Panel, NIAID, ZRG1 AARR-K(02), Aug 2010.  
 Special Emphasis Panel, NIAID, ZRG1 AARR-J (02), March 2011  
 Division of AIDS: RFA-A1-11-012 Beyond HAART: Innovative Therapies to Control HIV-1 (P01), November 2011.  
 PAR-12-087: HIV Vaccine Research and Design (HIVRAD) Program (P01), September 21-22, 2012.

**OTHER**

"Basic Biomedical Sciences IDEA Awards", University of California, 2012-2014 in San Francisco

**Member of the UPSOM Interviewing Committee at University of Pittsburgh**

Interviewed 3 medical student candidates in 2009.  
 Interviewed 9 medical student candidates in 2010.  
 Interviewed 10 medical student candidates in 2011.  
 Interviewed 9 medical students candidates in 2012.  
 Interviewed 5 medical students candidates in 2013.  
 Interviewed 10 medical students candidates in 2014.

**Member of the Medical School Admission Committee**

June 2015

**Member in the Romanian Research Assessment Committee**

Ranking of the Medical Schools in Romania July –September 2011.

**Member of the IACUC Committee University of Pittsburgh.**

2010

IACUC Meetings	3 hrs/meeting	x	12 meetings/year				36 hours
Meeting Preparation	1 hr/meeting	x	12 meetings/year				12 hours
Protocol Reviews	1 hr/protocol	x	3 protocols/wk	x	52 weeks/yr		156 hours
Semi-annual Site Visits	avg.3 hrs/review	x			2		reviews/year
and Program Reviews							6 hours
<b>TOTAL ANNUAL TIME COMMITMENT</b>			<b>210 hours/year</b>				

2011

IACUC Meetings	3 hrs/meeting	x	12 meetings/year				36 hours
Meeting Preparation	1 hr/meeting	x	12 meetings/year				12 hours
Protocol Reviews	1 hr/protocol	x	3 protocols/wk	x	52 weeks/yr		156 hours
Semi-annual Site Visits	avg.3 hrs/review	x			2		reviews/year
and Program Reviews							6 hours
<b>TOTAL ANNUAL TIME COMMITMENT</b>			<b>210 hours/year</b>				

2012

IACUC Meetings	3 hrs/meeting	x	12 meetings/year				36 hours
Meeting Preparation	1 hr/meeting	x	12 meetings/year				12 hours
Protocol Reviews	1 hr/protocol	x	3 protocols/wk	x	52 weeks/yr		156 hours
Semi-annual Site Visits and Program Reviews	avg.3 hrs/review	x				2 reviews/year	6 hours
TOTAL ANNUAL TIME COMMITMENT			210 hours/year				

### **Conference session chair**

CROI 2008, 15<sup>th</sup> Conference on Retroviruses and Opportunistic Infections: Session 36 " New Insights into Mechanisms of viral pathogenicity"

CVR Symposium November 2011: Session: Vaccines and System Immunology

XIX International AIDS Conference Washington D.C. 22-27 July 2012: Session title: HIV/SIV Pathogenesis

### **Member of the CVR Executive Committee at University of Pittsburgh**

The Committee meets once per month to discuss and decide the usage of funds, space and equipment inside CVR.