

Full papers (selected out of 91 peer-reviewed publications)

1. M. M. Norström, M. Buggert, J. Tauriainen, W. Hartogensis, M. C. F. Prospero, M. Wallet, F. M. Hecht, **M. Salemi** ‡, A. C. Karlsson. Combination of immune and viral factors distinguish low-risk versus high-risk HIV-1 disease progression in HLA-B*5701 subjects. *Journal of Virology*: **86**(18), 9802-16, 2012. ‡ Corresponding author. [Epub ahead of print Jul 3 2012] PMID: PMC Journal in Process
2. S. Strickland, R. R. Gray, S. L. Lamers, T. H. Burdo, E. Huenink, D. J. Nolan, B. Nowlin, X. Alvarez, C. C. Midkiff, M. M. Goodenow, K. Williams, **M. Salemi**. Efficient transmission and persistence of low frequency SIVmac251 variants in CD8-depleted Rhesus macaques with different neuropathology. *Journal of General Virology* **93**(Pt 5), 925-38, 2012. [Epub ahead of print Feb 1 2012]. PMID: PMC Journal in Process
3. M. C. Prospero, **M. Salemi**. QuRe: software for viral quasispecies reconstruction from next generation sequence data. *Bioinformatics* **28**(1), 132-3, 2011. PMID: PMC3244773
4. R. R. Gray, O. G. Pybus, **M. Salemi**. Measuring the temporal structure in serially-sampled phylogenies. *Methods in Ecology and Evolution* **2**, 437-455, 2011. PMID: PMC3222587
5. S. Strickland, R. R. Gray, S. L. Lamers, T. H. Burdo, E. Huenink, D. J. Nolan, B. Nowlin, X. Alvarez, C. C. Midkiff, M. M. Goodenow, K. Williams, **M. Salemi**. Significant genetic heterogeneity of the SIVmac251 viral swarm derived from different sources. *AIDS Research and Human Retroviruses* **27**, 1327-32, 2011. PMID: PMC3227245
6. M. C. F. Prospero, M. Ciccozzi, I. Fanti, F. Saladini, M. Pecorari, V. Borghi, S. Di Gianbenedetto, B. Bruzzone, A. Capetti, A. Vivarelli, S. Rusconi, M. Carla Re, M. R. Gismondo, L. Sighinolfi, R. R. Gray, **M. Salemi**, M. Zazzi, A. De Luca on behalf of the ARCA collaborative group. A novel methodology for large-scale phylogeny partition: application to the Italian HIV-1 epidemic. *Nature Communications* **2**, 321, 2011. PMID: PMC Journal in Process
7. S. L. Lamers ‡, R. R. Gray ‡, **M. Salemi** ‡, L. Huysentruyt, M. McGrath. HIV-1 Phylogenetic analysis shows HIV-1 transits through the meninges to brain and peripheral tissues. ‡ Equally contributing authors. *Infection Genetics and Evolution* **11**(1), 31-37, 2011. [Epub ahead of print Nov 3, 2010]. PMID: PMC3005076
8. M. C. F. Prospero, A. De Luca, S. Di Giambenedetto, L. Bracciale, M. Fabbiani, R. Cauda, **M. Salemi**. The threshold bootstrap clustering: a new approach to find families or transmission clusters within molecular quasispecies. *PLoS ONE*: **5**(10), e13619, 2010. PMID: PMC2963616
9. S. L. Lamers, **M. Salemi**, D.C. Galligan, A. Morris, R.R. Gray, G. Fogel, Li.Zhao, M.S. McGrath. HIV-1 Evolutionary patterns associated with pathogenic processes in the brain. *J. Neurovir.* **16**(3), 230-41, 2010. PMID: PMC2994721

10. **M. Salemi**, S. L. Lamers, L. C. Huysentruyt, D. C. Galligan, R. G. Gray, A. Morris, M. S. McGrath. Distinct patterns of HIV-1 evolution within metastatic tissues in patients with non-Hodgkins lymphoma. *PLoS ONE* **4**(12), e8153, 2009. PMID: PMC2780293
11. S. L. Lamers, **M. Salemi**, D. C. Galligan, T. de Oliveira, G. B. Fogel, S. C. Granier, L. Zhao, J. N. Brown, A. Morris, E. Masliah, M. S. McGrath. Extensive HIV-1 intra-host recombination is common in tissues with abnormal histopathology. *PLoS ONE* **4**(3), e5065, 2009. PMID: PMC2659430
12. **M. Salemi**, R. R. Gray, M. M. Goodenow. An exploratory algorithm to investigate intra-host recombinant viral sequences. *Molecular Phylogenetics and Evolution* **49**, 618-628, 2008. PMID: PMC2615825
13. **M. Salemi**, B. Burkhardt, R. R. Gray, G. Ghaffari, J. W. Sleasmsn, M. M. Goodenow. Phylodynamics of HIV-1 in lymphoid and non-lymphoid tissues reveals a central role for the thymus in emergence of CXCR4-using quasispecies. *PLoS ONE* **2**(9), e950, 2007. PMID: PMC1978532
14. **M Salemi**, S. L. Lamers, S. Yu, T. De Oliveira, W. M. Fitch, M. S. McGrath. Phylodynamic analysis of human immunodeficiency virus type 1 in distinct brain compartments provides a model for the neuropathogenesis of AIDS. *Journal of Virology* **79**, 11343-52, 2005. PMID: PMC1193641
15. S.L. Lamers, S. Beason, R. Compton, L. Dunlap, **M. Salemi**. HIVbase: a PC/Windows-based software offering storage and querying power for locally held HIV-1 genetic, experimental, and clinical data. *Bioinformatics* **20**, 436-38, 2004. PMID: PMC Journal in Process