

Publications (H-index 45, total citations 10037; google scholar)

1. V. Albergoni & **A. Viola**. 1995. Effects of cadmium on catfish, *Ictalurus melas*, humoral immune responses. *Fish & Shellfish Immunology*, 6: 167.
2. V. Albergoni & **A. Viola**. 1995. Effects of cadmium on lymphocyte proliferation and macrophage activation in catfish, *Ictalurus melas*. *Fish & Shellfish Immunology*, 5: 301.
3. **A. Viola**, G. Pregnolato & V. Albergoni. 1996. Effect of cadmium on catfish, *Ictalurus melas*, natural killer cells. *Fish & Shellfish Immunology*, 6: 167.
4. **A. Viola** & A. Lanzavecchia. 1996. T cell activation determined by T cell receptor number and tunable thresholds. *Science*, 273: 104-6.
5. **A. Viola**, S. Linkert & A. Lanzavecchia. 1997. A T cell receptor (TCR) antagonist competitively inhibits serial TCR triggering by low-affinity ligands, but does not affect triggering by high-affinity anti-CD3 antibodies. *European Journal of Immunology*, 27: 3080.
6. **A. Viola**, M. Salio, L. Tuosto, S. Linkert, O. Acuto & A. Lanzavecchia. 1997. Quantitative contribution of CD4 and CD8 to T cell antigen receptor serial triggering. *The Journal of Experimental Medicine*, 186: 1775.
7. **A. Viola**, G. Iezzi & A. Lanzavecchia. 1998. The role of dendritic cells in T cell priming: the importance of being professional. In "*Dendritic Cells: Biology and Clinical Applications*", 1998, Academic Press.
8. A. Lanzavecchia, G. Iezzi & **A. Viola**. 1999. From TCR engagement to T cell activation: a kinetic view of T cell behaviour. *Cell*, 96:1.
9. M. F. Bachmann, M. Barner, **A. Viola** & M. Kopf. 1999. Differential regulation of cytokine production and cytolysis in effector and memory T cells after viral infection. *European Journal of Immunology*, 29: 291.
10. **A. Viola**, S. Schroeder, Y. Sakakibara & A. Lanzavecchia. 1999. T lymphocyte costimulation mediated by reorganization of membrane microdomains. *Science*, 283: 680-2.
11. M. F. Bachmann, A. Gallimore, S. Linkert, V. Cerundolo, A. Lanzavecchia, M. Kopf & **A. Viola**. 1999. Developmental regulation of Lck-targeting to the CD8 coreceptor controls signaling in naive and memory T cells. *The Journal of Experimental Medicine*, 189: 1521-9.
12. **A. Viola** & A. Lanzavecchia. 1999. T cell activation and the dynamic world of rafts. *Acta Pathologica, Microbiologica et Immunologica Scandinavica*, 107:615.
13. L. Tuosto, I. Parolini, S. Schroeder, M. Sargiacomo, A. Lanzavecchia & **A. Viola**. 2001. Organization of plasma membrane functional rafts upon T cell activation. *European Journal of Immunology*, 31:345-9.
14. **A. Viola**. 2001. Amplification of TCR signaling by membrane dynamic microdomains. *Trends in Immunology*, 22:322-7.
15. **A. Viola**. 2001. Antigen recognition by T cell: a strong sense of structure. *Trends in Immunology*, 22:601.
16. B. Marinari, A. Costanzo, **A. Viola**, F. Michel, G. Mangino, O. Acuto, M. Levrero, E. Piccolella & Loretta Tuosto. 2001. Vav cooperates with CD28 to induce NF- κ B activation via a pathway involving Rac-1 and mitogen-activated kinase kinase 1. *European Journal of Immunology*, 32: 447-56.
17. P. Pizzo, E. Giurisato, M. Tassi, A. Benedetti, T. Pozzan, and **A. Viola**. 2002 Lipid rafts and TCR signalling: a critical reevaluation. *European Journal of Immunology*, 32:3082-91.
18. P. Pizzo and **A. Viola**. 2003 Lymphocyte lipid rafts: structure and functions. *Current Opinion in Immunology*, 15:255-60.
19. P. Pizzo, E. Giurisato, A. Bigsten, M. Tassi, R. Tavano, A. Shaw and **A. Viola**. 2004. Physiological T cell activation starts and propagates in lipid rafts. *Immunology Letters*, 91:3-9.
20. R. Zambello, A. Cabrelle, L. Trentin, C. Agostini, G. Semenzato and **A. Viola**. 2004. The raft marker GM1 distinguishes functional subsets of Granular Lymphocytes in patients with CD3⁺ Lymphoproliferative Disease of Granular Lymphocytes. *Leukemia*, 18:771-6.
21. P. Pizzo and **A. Viola**. 2004. Lipid rafts in lymphocyte activation. *Microbes and Infection*, 6:682-92.
22. G. Gri, B. Molon, S. Manes, T. Pozzan and **A. Viola**. 2004. The inner side of T cell lipid rafts. *Immunology Letters*, 94:247-252.
23. R. Tavano, G. Gri, B. Molon, B. Marinari, C.E. Rudd, L. Tuosto and **A. Viola**. 2004. CD28 and lipid rafts coordinate recruitment of Lck to the immunological synapse of human T lymphocytes". *The Journal of Immunology*, 173:5392-5397.

24. P. Pizzo and **A. Viola**. Lipid-based membrane microdomains in T cell activation. 2005. *Current Immunology Review*, 1:7-12.
25. V. Bronte, T. Kasic, G. Gri, K. Gallana, G. Borsellino, I. Marigo, L. Battistini, M. Iafrate, T. Prayer-Galetti, F. Pagano and **A. Viola**. 2005. Boosting anti-tumor responses of T lymphocytes infiltrating human prostate cancers. *The Journal of Experimental Medicine*, 201:1257-68.
26. B. Molon, G. Gri, M. Bettella, C. Goumez-Mouton, A. Lanzavechia, C. Martinez-A, S. Manes and **A. Viola**. 2005. T cell costimulation by chemokine receptors. *Nature Immunology*, 6:465-71.
27. T. Kasic and **A. Viola**. 2005. Prostate cancer-induced immunodysfunction: a lesson from organ cultures. *Immunology Letters*, 15:98-102.
28. S. Manes and **A. Viola**. 2005. Lipid rafts in lymphocyte activation and migration. *Molecular Membrane Biology*, 23:59-69.
29. **A. Viola**, R. Contento and B. Molon. 2006. T cells and their partners: the chemokine dating agency. *Trends in Immunology*, 27:421-427.
30. R. Tavano, R.L. Contento, S.J. Baranda, M. Soligo, L. Tuosto, S. Manes and **A. Viola**. 2006. CD28 interaction with filamin-A controls lipid raft accumulation at the T cell immunological synapse. *Nature Cell Biology*, 8:1270-1276.
31. S. Mayor, **A. Viola**, R.V. Stan and M.A. del Pozo. 2006. Flying kites on slippery slopes at Keystone. *EMBO Reports*, 7:1089-1093.
32. S. Campello, R.A. Lacalle, M. Bettella, S. Manes, L. Scorrano and **A. Viola**. 2006. Orchestration of leukocyte chemotaxis by mitochondrial dynamycs. *The Journal of Experimental Medicine*, 203: 2879-2886.
33. C. Mazzon and **A. Viola**. 2007. From Tango to Quadrilla: current views on the immunological synapse. *Cell Adhesion and Migration*, 1:7-12.
34. **A. Viola** and V. Bronte. 2007. Metabolic mechanisms of cancer-induced inhibition of immune responses. *Seminars in Cancer Biology*, 17:309-316.
35. S. Jimenez-Baranda, C. Gomez-Mouton, A. Rojas, L. Martinez-Prats, E. Mira, R.A. Lacalle, A. Valencia, D. S. Dimitrov, **A. Viola**, R. Delgado, C. Martinez-A, S. Manes. 2007. Filamin-A regulates actin-dependent clustering of HIV receptors. *Nature Cell Biology*, 9:838-46.
36. C. Mazzon, B. Baldani-Guerra, P. Cecchini, T. Kasic, **A. Viola**, M. de Bernard, B. Aricò, F. Gerosa and E. Papini. 2007. IFN- γ and R-848 dependent activation of human monocyte-derived dendritic cells by Neisseria meningitidis adhesin A. *The Journal of Immunology*, 179: 3904-16.
37. **A. Viola** and N. Gupta. 2007. Tether and Trap: Regulation of membrane rafts by actin-binding proteins. *Nature Reviews Immunology*, 7:889-96.
38. **A. Viola** and A.D. Luster. 2008. Chemokines and Their Receptors: Drug Targets in Immunity and Inflammation. *Annual Review of Pharmacology and Toxicology*, 48:171-197.
39. **A. Viola**, B. Molon and R.L. Contento. 2008. Chemokines: coded messages for T cell missions. *Frontiers in Biosciences*, 13:6341-53.
40. R.L. Contento, B. Molon, C. Boularan, T. Pozzan, S. Manes, S. Marullo and **A. Viola**. 2008. CXCR4-CCR5: a couple modulating T-cell functions. *Proceedings of the National Academy of Science of the United States of America*, 105:10101-10106.
41. G. Gri, S. Piconese, B. Frossi, V. Manfroi, S. Merluzzi, C. Tripodo, **A. Viola**, S. Odom, J. Rivera, M.P. Colombo and C.E. Pucillo. 2008. CD4+CD25+ regulatory T cells suppress mast cell degranulation and allergic responses through OX40-OX40L interaction. *Immunity*, 29:771-781.
42. **A. Viola**, R.L. Contento and B. Molon. 2010. Signaling amplification at the immunological synapse. *Current Topics in Microbiology and Immunology*, 340:109-22.
43. V. Dal Secco, C. Soldani, C. Debrat, F. Asperti-Boursin, E. Donnadieu, **A. Viola**^{*} and A. Sarukhan. 2009. Tunable chemokine production by antigen presenting dendritic cells in response to changes in regulatory T cell frequency in mouse reactive lymph nodes. *PLoSone*, 4:e7696. ^{*}corresponding author.
44. Rajendran L, Beckmann J, Magenau A, Boneberg EM, Gaus K, **Viola A**, Giebel B, Illges H. 2009. Flotillins are involved in the polarization of primitive and mature hematopoietic cells. *PLoS One* 2009 Dec 22 4 e8290
45. S. Sivori, M. Falco, S. Carlomagno, E. Romeo, C. Soldani, A. Bensussan, **A. Viola**, L. Moretta and A. Moretta. 2010. A novel KIR-associated function: evidence that CpG DNA uptake and shuttling to early endosomes is mediated by KIR3DL2. *Blood*, 116(10):1637-47.

46. K. Nika, C. Soldani, M. Salek, W. Paster, A. Gray, R. Etzensperger, L. Fugger, P. Polzella, V. Cerundolo, O. Dushek, T. Hoefler, **A. Viola** and O. Acuto. 2010. Constitutively active Lck in T cell drives antigen receptor signal transduction. *Immunity*, 32:766-777.
47. R.L. Contento, S. Campello, A.E. Trovato, E. Magrini, F. Anselmi and **A. Viola**. 2010. Adhesion shapes T cells for prompt and sustained T cell receptor signaling. *EMBO Journal*, 29:4035-47.
48. L. Koval, O. Lykhmus, M. Zhmak, A. Khruschov, V. Tsetlin, E. Magrini, **A. Viola**, A. Chernyavsky, J. Qian, S. Grando, S. Komisarenko and M. Skok. 2010. Differential involvement of $\alpha 4\beta 2$, $\alpha 7$ and $\alpha 9\alpha 10$ nicotinic acetylcholine receptors in B lymphocyte activation in vitro. *International Journal of Biochemistry and Cell Biology*, 43 (2011) 516–524.
49. T. Kasic, P. Colombo, C. Soldani, C.M. Wang, E. Miranda, M. Roncalli, V. Bronte and **A. Viola**. 2011. Modulation of human T cell functions by reactive nitrogen species. *European Journal of Immunology*, 41(7):1843-9.
50. S. Morlacchi, V. dal Secco, C. Soldani, N. Glaichenhaus, **A. Viola** and A. Sarukhan. 2011. Regulatory T cells target chemokine secretion by dendritic cells independently of their capacity to regulate T cell proliferation. *The Journal of Immunology*, 186(12):6807-14.
51. C. Mazzon, A. Anselmo, J. Cibella, C. Soldani, A. Destro, N. Kim, M. Roncalli, S.J. Burden, M.L. Dustin, A. Sarukhan and **A. Viola**. 2011. The critical role of agrin in the hematopoietic stem cell niche. *Blood*, 118(10): 2733-2742.
52. S. Morlacchi, C. Soldani, A. Viola and A. Sarukhan. 2011. Self-antigen presentation by B cells results in regulatory T cell induction rather than anergy or clonal deletion. *Blood*, 118(4):984-91.
53. E. Magrini, I. Szabò, A. Doni, J. Cibella and **A. Viola**. 2011. Serotonin-Mediated Tuning of Human Helper T Cell Responsiveness to the Chemokine CXCL12. *PlosOne*, 6(8):e22482.
54. Molon B, Ugel S, Del Pozzo F, Soldani C, Zilio S, Avella D, De Palma A, Mauri PL, Monegal A, Rescigno M, Savino B, Colombo P, Jonjic N, Pecanic S, Lazzarato L, Fruttero R, Gasco A, Bronte V, **Viola A**. 2011. Chemokine nitration prevents intratumoral infiltration of antigen-specific T cells. *The Journal of Experimental Medicine* 208(10):1949-62.
55. Zanotti L, Sarukhan A, Dander E, Castor M, Cibella J, Soldani C, Elisa Trovato A, Ploia C, Luca G, Calvitti M, Mancuso F, Arato I, Golemac M, Jonjic N, Biondi A, Calafiore R, Locati M, D'Amico G, **Viola A**. 2012. Encapsulated mesenchymal stem cells for in vivo immunomodulation. *Leukemia* 27(2):500-3.
56. Molon B, **Viola A**, Bronte V. 2012. Smoothing T cell roads to the tumor: Chemokine post-translational regulation. *Oncoimmunology*. 1(3):390-392.
57. Viola A, Sarukhan A, Bronte V, Molon B. 2012. The pros and cons of chemokines in tumor immunology. *Trends Immunol.* 33: 496-504.
58. Mazzon C, Anselmo A, Soldani C, Cibella J, Ploia C, Moalli F, Burden SJ, Dustin ML, Sarukhan A, **Viola A**. 2012. Agrin is required for survival and function of monocytic cells. *Blood* 119(23):5502-11.
59. Meisel M, Hermann-Kleiter N, Hinterleitner R, Gruber T, Pfeifhofer-Obermair C, Fresser F, Leitges M, Soldani C, **Viola A**, Kaminski S, Baier G. 2013. PKC α selectively regulates IL-17A during TH17 immune responses in vitro and in vivo. *Immunity* 38(1):41-52.
60. Gruber T, Hinterleitner R, Hermann-Kleiter N, Meisel M, Kleiter I, Wang CM, **Viola A**, Pfeifhofer-Obermair C, Baier G. 2013. Cbl-b mediates TGF β sensitivity by downregulating inhibitory SMAD7 in primary T cells. *J Mol Cell Biol.* 5(6):358-68.
61. Riboldi E, Porta C, Morlacchi S, **Viola A**, Mantovani A, Sica A. 2013. Hypoxia-mediated regulation of macrophage functions in pathophysiology. *Int Immunol.* 25(2):67-75.
62. Kallikourdis M, Trovato AE, Anselmi F, Sarukhan A, Roselli G, Tassone L, Badolato R, **Viola A**. 2013. The CXCR4 mutations in WHIM syndrome impair the stability of the T cell immunological synapse. *Blood* 122(5):666-73.
63. Wang CM, Ploia C, Anselmi F, Sarukhan A, **Viola A**. 2014. ATP acts as a paracrine signaling molecule to reduce the motility of T cells. *EMBO J* 33(12):1354-64.
64. Muscolini M, Camperio C, Porciello N, Caristi S, Capuano C, **Viola A**, Galandrini R, Tuosto L. 2015. Phosphatidylinositol 4-Phosphate 5-Kinase α and Vav1 Mutual Cooperation in CD28-Mediated Actin Remodeling and Signaling Functions. *J Immunol.* 194(3):1323-33.
65. Kallikourdis M, **Viola A.**, Benvenuti F. 2015. Human immunodeficiencies related to APC/T cell interaction. *Frontiers in Immunology.* 6:433.

66. Sarukhan A, Zanotti L, **Viola A**. 2015. Mesenchymal stem cells: myths and reality. *Swiss Medical Wkly*. 145:w14229.
67. Kallikourdis M, Trovato AE, Roselli G, Muscolini M, Porciello N, Tuosto L, **Viola A**. 2016. Phosphatidylinositol 4-phosphate 5-kinase β controls recruitment of lipid rafts into the immunological synapse. *The Journal of Immunology* 196(4):1955-63.
68. Anselmo A, Lauranzano E, Soldani C, Ploia C, Angioni R, D'amico G, Sarukhan A, Mazzon C, **Viola A**. 2016. Identification of a novel agrin-dependent pathway in cell signaling and adhesion within the erythroid niche. *Cell Death and Differentiation* 23(8):1322-30.
69. Molon B, Cali B, **Viola A**. 2016. T cells and cancer: how metabolism shapes immunity. *Frontiers in Immunology* 7:20.
70. Zanotti L., Angioni A., Cali B., Soldani C., Ploia C., Moalli F., Gargesha M., D'Amico G., Elliman S., Tedeschi G., Maffioli E., Negri A., Zacchigna S., Sarukhan A., Stein J.V. and **Viola A**. 2016. Mouse Mesenchymal stem cells inhibit high endothelial cell activation and lymphocyte homing to lymph nodes by releasing TIMP-1. *Leukemia* 30(5):1143–1154.
71. Pozzobon T, Goldoni G, **Viola A**, Molon B. 2016. CXCR4 signaling in health and disease. *Immunol Lett*. 177:6-15.
72. Larghi P., **Viola A.**, Molon B. 2017. Analysis of T Cell Activation by Confocal Microscopy. *Methods Mol Biol*.1514:63-81.
73. Roselli G., Martini E., Lougaris V., Badolato R., **Viola A**. and Kallikourdis M. CXCL12 mediates aberrant costimulation of B lymphocytes in WHIM immunodeficiency. *Front. Immunol.* 8:1068.
74. Porciello N., Kunkl M., **Viola A.**, Tuosto L. 2016. Phosphatidylinositol 4-Phosphate 5-Kinases in the Regulation of T Cell Activation. *Front Immunol.* 7:186.
75. Cali B., Molon B., **Viola A**. 2017. Tuning cancer fate: the unremitting role of host immunity. *Open Biol.* 7(4).
76. Maffioli E., Nonnis S., Angioni R., Santagata F., Cali B., Zanotti L., Negri A., **Viola A.**, Tedeschi G. 2017. Proteomic analysis of the secretome of human bone marrow-derived mesenchymal stem cells primed by pro-inflammatory cytokines. *J Proteomics*. 166:115-126.
77. Zumerle S., Molon B. and **Viola A**. 2017. Membrane rafts in T cell activation: a spotlight on CD28-costimulation. *Front Immunol.* 8:1467.
78. Zumerle S, Cali B, Munari F, Angioni R, Di Virgilio F, Molon B, **Viola A**. 2019. Intercellular Calcium Signaling Induced by ATP Potentiates Macrophage Phagocytosis. *Cell Rep*. 27(1):1-10.
79. **Viola A**, Munari F, Sánchez-Rodríguez R, Scolaro T, Castegna A. 2019. The Metabolic Signature of Macrophage Responses. *Front Immunol.* 10:1462.
80. Zaramella P, Munari F, Stocchero M, Molon B, Nardo D, Priante E, Tosato F, Bonadies L, **Viola A**, Baraldi E. 2019. Innate immunity ascertained from blood and tracheal aspirates of preterm newborn provides new clues for assessing bronchopulmonary dysplasia. *PLoS One*. 14(9):e0221206.
81. Lindoso RS, Lopes JA, Binato R, Abdelhay E, Takiya CM, Miranda KR, Lara LS, **Viola A**, Bussolati B, Vieyra A, Collino F. 2019. Adipose Mesenchymal Cells-Derived EVs Alleviate DOCA-Salt-Induced Hypertension by Promoting Cardio-Renal Protection. *Mol Ther Methods Clin Dev*. 16:63-77.
82. Herkenne S, Ek O, Zamberlan M, Pellattiero A, Chergova M, Chivite I, Novotná E, Rigoni G, Fonseca TB, Samardzic D, Agnellini A, Bean C, Di Benedetto G, Tiso N, Argenton F, **Viola A**, Soriano ME, Giacomello M, Ziviani E, Sales G, Claret M, Graupera M, Scorrano L. 2020. Developmental and tumour angiogenesis requires the mitochondria-shaping protein Opa1. *Cell Metabolism*, 31(5):987-1003.
83. Castegna A, Gissi R, Menga A, Montopoli M, Favia M, **Viola A**, Canton M. 2020. Pharmacological targets of metabolism in disease: opportunities from macrophages. *Pharmacology & Therapeutics*, in press.
84. Angioni R, Herkenne S, Liboni C, Sánchez-Rodríguez R, Borile G, Muraca M, Cali B, **Viola A**. 2020. CD73⁺ extracellular vesicles inhibit angiogenesis through adenosine A2B receptor signalling. *Journal of Extracellular Vesicles*, in press.
85. Sánchez-Rodríguez R, Munari F, Angioni R, Venegas F, Agnellini A, Castro-Gil MP, Castegna A, Luisetto R, **Viola A***, Canton M. 2020. Targeting monoamine oxidase to dampen NLRP3 inflammasome activation in inflammation. *Cellular & Molecular Immunology*, in press. (* co-last, corresponding author).

Patents

“Nitric oxide furoxan derivative compounds endowed with antitumoral activity” PCT/EP2009/000206 15/01/2009.

“Nuovi derivati furossanici idrosolubili aventi attività antitumorale” MI2010A000287 23/10/2010.

“New anti-angiogenic extracellular vescicles” PCT/IB2016/057608 14/12/2016.