

Biosketch - Andrea Cabibbo, Ph.D.

- 1990: Laurea in Scienze Biologiche, 110 cum laude, Università di Roma "La Sapienza"
- 1991-94: Dottorato in Biologia Cellulare e Molecolare, Università di Roma "Tor Vergata", Istituto di Ricerche in Biologia Molecolare, IRBM, Rome
- 1995-97: Borsa di studio AIRC, Istituto Scientifico San Raffaele, Milano
- 1997-2000: Ricercatore, Istituto Scientifico San Raffaele, Milano
- 2000-2007: Contratti di Ricerca, Università di Roma "Tor Vergata"
- 2008-oggi: Ricercatore MED/04, Dipartimento di Scienze Biologiche, Università di Roma "Tor Vergata"

Pubblicazioni – Publications

1: Giacò L, Amicosante M, Fraziano M, Gherardini PF, Ausiello G, Helmer-Citterich M, Colizzi V, Cabibbo A. B-Pred, a structure based B-cell epitopes prediction server. *Adv Appl Bioinform Chem.* 2012;5:11-21. doi: 10.2147/AABC.S30620. Epub 2012 Jul 25. PubMed PMID: 22888263; PubMed Central PMCID: PMC3413014.

2: Delogu G, Sali M, Rocca S, Quintiliani G, Santucci MB, Greco E, Cabibbo A, Mariani F, Colizzi V, Fadda G, Fraziano M. Lysophosphatidic acid enhances antimycobacterial response during in vivo primary Mycobacterium tuberculosis infection. *Cell Immunol.* 2011;271(1):1-4. doi: 10.1016/j.cellimm.2011.05.014. Epub 2011 Jun 1. PubMed PMID: 21703599.

3: Panni S, Montecchi-Palazzi L, Kiemer L, Cabibbo A, Paoluzi S, Santonico E, Landgraf C, Volkmer-Engert R, Bachi A, Castagnoli L, Cesareni G. Combining peptide recognition specificity and context information for the prediction of the 14-3-3-mediated interactome in *S. cerevisiae* and *H. sapiens*. *Proteomics.* 2011 Jan;11(1):128-43. doi: 10.1002/pmic.201000030. Epub 2010 Dec 6. PubMed PMID: 21182200.

4: Navone F, Consalez GG, Sardella M, Caspani E, Pozzoli O, Frassoni C, Morlacchi E, Sitia R, Sprocati T, Cabibbo A. Expression of KIF3C kinesin during neural development and in vitro neuronal differentiation. *J Neurochem.* 2001 May;77(3):741-53. PubMed PMID: 11331403.

5: Benedetti C, Fabbri M, Sitia R, Cabibbo A. Aspects of gene regulation during

the UPR in human cells. *Biochem Biophys Res Commun.* 2000 Nov 30;278(3):530-6. PubMed PMID: 11095945.

6: Benham AM, Cabibbo A, Fassio A, Bulleid N, Sitia R, Braakman I. The CXXCXXC motif determines the folding, structure and stability of human Ero1-Lalpha. *EMBO J.* 2000 Sep 1;19(17):4493-502. PubMed PMID: 10970843; PubMed Central PMCID: PMC302061.

7: Pagani M, Fabbri M, Benedetti C, Fassio A, Pilati S, Bulleid NJ, Cabibbo A, Sitia R. Endoplasmic reticulum oxidoreductin 1-lbeta (ERO1-Lbeta), a human gene induced in the course of the unfolded protein response. *J Biol Chem.* 2000 Aug 4;275(31):23685-92. PubMed PMID: 10818100.

8: Cabibbo A, Pagani M, Fabbri M, Rocchi M, Farmery MR, Bulleid NJ, Sitia R. ERO1-L, a human protein that favors disulfide bond formation in the endoplasmic reticulum. *J Biol Chem.* 2000 Feb 18;275(7):4827-33. PubMed PMID: 10671517.

9: Consalez GG, Cabibbo A, Corradi A, Alli C, Sardella M, Sitia R, Fesce R. A computer-driven approach to PCR-based differential screening, alternative to differential display. *Bioinformatics.* 1999 Feb;15(2):93-105. PubMed PMID: 10089194.

10: Maggioni C, Carelli S, Cabibbo A, Fagioli C, Fra AM, Sitia R. Assembly and secretion of antibodies during B cell development. *Bratisl Lek Listy.* 1998 Aug-Sep;99(8-9):419-25. Review. PubMed PMID: 9810765.

11: Cabibbo A, Consalez GG, Sardella M, Sitia R, Rubartelli A. Changes in gene expression during the growth arrest of HepG2 hepatoma cells induced by reducing agents or TGFbeta1. *Oncogene.* 1998 Jun 4;16(22):2935-43. PubMed PMID: 9671414.

12: Sardella M, Navone F, Rocchi M, Rubartelli A, Viggiano L, Vignali G, Consalez GG, Sitia R, Cabibbo A. KIF3C, a novel member of the kinesin superfamily: sequence, expression, and mapping to human chromosome 2 at 2p23. *Genomics.* 1998 Feb 1;47(3):405-8. PubMed PMID: 9480755.

13: Sitia R, Ceriotti A, Cabibbo A, Fassina G, Ruvo M. Secretion of thiols and disulfide bond formation: retraction. *Science.* 1998 Feb 27;279(5355):1288-9. PubMed PMID: 9508700.

14: Carelli S, Ceriotti A, Cabibbo A, Fassina G, Ruvo M, Sitia R. Cysteine and glutathione secretion in response to protein disulfide bond formation in the ER. *Science.* 1997 Sep 12;277(5332):1681-4. Retraction in: Sitia R, Ceriotti A,

Cabibbo A, Fassina G, Ruvo M. *Science*. 1998 Feb 27;279(5355):1288-9. PubMed PMID: 9287224.

15: Toniatti C, Cabibbo A, Sporena E, Salvati AL, Cerretani M, Serafini S, Lahm A, Cortese R, Ciliberto G. Engineering human interleukin-6 to obtain variants with strongly enhanced bioactivity. *EMBO J*. 1996 Jun 3;15(11):2726-37. PubMed PMID: 8654370; PubMed Central PMCID: PMC450208.

16: Sporeno E, Savino R, Ciapponi L, Paonessa G, Cabibbo A, Lahm A, Pulkki K, Sun RX, Toniatti C, Klein B, Ciliberto G. Human interleukin-6 receptor super-antagonists with high potency and wide spectrum on multiple myeloma cells. *Blood*. 1996 Jun 1;87(11):4510-9. PubMed PMID: 8639818.

17: Ballario P, Vittorioso P, Magrelli A, Talora C, Cabibbo A, Macino G. White collar-1, a central regulator of blue light responses in *Neurospora*, is a zinc finger protein. *EMBO J*. 1996 Apr 1;15(7):1650-7. PubMed PMID: 8612589; PubMed Central PMCID: PMC450076.

18: Cabibbo A, Sporeno E, Toniatti C, Altamura S, Savino R, Paonessa G, Ciliberto G. Monovalent phage display of human interleukin (hIL)-6: selection of superbinder variants from a complex molecular repertoire in the hIL-6 D-helix. *Gene*. 1995 Dec 29;167(1-2):41-7. PubMed PMID: 8566809.

19: Lahm A, Savino R, Salvati AL, Cabibbo A, Ciapponi L, Demartis A, Toniatti C, Paonessa G, Altamura S, Ciliberto G. The molecular design of human IL-6 receptor antagonists. *Ann N Y Acad Sci*. 1995 Jul 21;762:136-50; discussion 150-1. PubMed PMID: 7668525.

20: Savino R, Ciapponi L, Lahm A, Demartis A, Cabibbo A, Toniatti C, Delmastro P, Altamura S, Ciliberto G. Rational design of a receptor super-antagonist of human interleukin-6. *EMBO J*. 1994 Dec 15;13(24):5863-70. PubMed PMID: 7813426; PubMed Central PMCID: PMC395561.

21: Savino R, Lahm A, Giorgio M, Cabibbo A, Tramontano A, Ciliberto G. Saturation mutagenesis of the human interleukin 6 receptor-binding site: implications for its three-dimensional structure. *Proc Natl Acad Sci U S A*. 1993 May 1;90(9):4067-71. PubMed PMID: 8483922; PubMed Central PMCID: PMC46447.

22: Fiorillo MT, Cabibbo A, Iacopetti P, Fattori E, Ciliberto G. Analysis of human/mouse interleukin-6 hybrid proteins: both amino and carboxy termini of human interleukin-6 are required for in vitro receptor binding. *Eur J Immunol*. 1992 Oct;22(10):2609-15. PubMed PMID: 1396966.

23: Aloisi F, Carè A, Borsellino G, Gallo P, Rosa S, Bassani A, Cabibbo A, Testa U, Levi G, Peschle C. Production of hemolymphopoietic cytokines (IL-6, IL-8, colony-stimulating factors) by normal human astrocytes in response to IL-1 beta and tumor necrosis factor-alpha. *J Immunol.* 1992 Oct 1;149(7):2358-66. PubMed PMID: 1382099.

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- 1995-97: AIRC Fellow, Istituto Scientifico San Raffaele, Milano
- 1997-2000: Researcher, Istituto Scientifico San Raffaele, Milano
- 2000-2007: Research contracts, University of Rome "Tor Vergata"
- 2008-to date: Researcher, Department of Biology, University of Rome "Tor Vergata"

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