

Domenico Grieco

1985: MD degree Summa cum Laude Università' di Napoli "Federico II.

1992: PhD degree Università' di Napoli "Federico II.

Present position: Professor of Clinical Biochemistry, Dept. of Pharmacy, Università' di Napoli "Federico II.

Research activity:

1986-1988: Fogarty Fellow; NIADDK, NIH, Bethesda, MD, USA. At Dr. E. Rall Laboratory. Hormonal regulation of the malic enzyme gene expression. Regulation of the cAMP-PKA pathway in normal and transformed cell lines. **1990-1993:** Postdoctoral Fellow at Institute of Cancer Research of Columbia University, New York, USA. At Dr. M. E. Gottesman Laboratory. Role for the cAMP-PKA pathway in the cell division cycle. **1993-1995:** Visiting Scientist at Institute of Cancer Research of Columbia University, New York, USA. At Dr. M. E. Gottesman Laboratory. Role for the cAMP-PKA pathway in the cell division cycle. **1998-2002:** Mechanisms of DNA replication and of the DNA damage response. Mechanisms controlling the completion of mitosis. **2002-present:** Mechanisms controlling chromosome segregation, the spindle assembly checkpoint (SAC). Mechanisms of spindle assembly checkpoint. Mechanisms of the DNA damage response.

Positions and Awards:

1986-1988: Fogarty Visiting Fellowship; NIADDK, NIH, Bethesda, MD, USA.

1990-1995: Fellowship from American Italian Foundation for Cancer Research (New York).

1993-1994: Fellowship from Associazione Italiana per la Ricerca sul Cancro (AIRC).

1995-1996: Fellowship CNR at Dipartimento di Biologia e Patologia Molecolare e Cellulare at Facoltà' di Medicina e Chirurgia, Università' di Napoli "Federico II".

1998: Ricercatore Universitario (F04A), Patologia Generale at Dipartimento di Medicina Sperimentale e Clinica, Facoltà' di Medicina e Chirurgia. Università' di Catanzaro.

1998: Awarded with a five year Grant from Associazione Italiana per la Ricerca sul Cancro (AIRC) dedicated to establish new research units ("New Unit Start Up Grant" (NUSUG) to the project entitled "Role for the cAMP-PKA pathway in the cell division cycle".

2002-2018: Associate Professor DMMBM, University of Naples "Federico II".

2004-to present: Faculty Member of the "Faculty of 1000 Biology" (*Cell Growth and Division section*).

Selected Publications:

Serpico A.F., Febraro F., Pisauro C., **Grieco D.** (2022) Compartmentalized control of Cdk1 drives mitotic spindle assembly. **Cell Reports**. online 25/01/2022.

Serpico A.F., Visconti R., **Grieco D.** (2020). Exploiting immune-dependent effects of microtubule-targeting agents to improve efficacy and tolerability of cancer treatment. **Cell Death & Disease** 11 (5), 1-79.

Serpico A.F., **Grieco D.** (2020). Recent advances in understanding the role of Cdk1 in the Spindle Assembly Checkpoint **F1000Research** 98.

Visconti R, Della Monica R, **Grieco D.** Cell Cycle Checkpoint In Cancer: A Therapeutically Targetable Double-Edged Sword. **J Exp Clin Cancer Res**. 2016 Sep 27;35(1):153.

Della Monica R, Visconti R, Cervone N, Serpico AF, **Grieco D.** Fcp1 Phosphatase Controls Greatwall Kinase To Promote Pp2a-B55 Activation And Mitotic Progression. **eLife**. 2016. Doi: 10.7554/Elife.10399.

Visconti R, Della Monica R, Palazzo L, D'alessio F, Raia M, Improta S, Villa Mr, Del Vecchio L, **Grieco D.** The Fcp1-Wee1-Cdk1 Axis Affects Spindle Assembly Checkpoint Robustness And Sensitivity To Antimicrotubule Cancer Drugs. **Cell Death And Differentiaion**. 2015 Mar 6. Doi: 10.1038/Cdd.2015.13.

Bellelli R., Castellone M.D., Guida T., Limongello R., Dathan N.A., Merolla F., Cirafici A.M., Affuso A., Masai H., Costanzo V., **Grieco D.**, Fusco A., Santoro M., Carlomagno F. (2014). Ncoa4 Transcriptional Coactivator Inhibits Activation Of Dna Replication Origins. **Molecular Cell**, 55:123-137. Doi: 10.1016/J.Molcel.2014.04.031.

Visconti R., Palazzo L., Della Monica R. **Grieco D.** (2012). Fcp1-Dependent Dephosphorylation Is Required For M-Phase-Promoting Factor Inactivation At Mitosis Exit. **Nature Communications**. 3: 894 Doi: 10.1038/Ncomms1886.

Cosentino C., **Grieco D.**, Costanzo V. (2011). Atm Activates The Pentose Phosphate Pathway Promoting Anti-Oxidant Defence And Dna Repair. **EMBO J**. 30: 546-555.

Visconti R., **Grieco D.** (2009). New Insights On Oxidative Stress In Cancer. **Current Opinion In Drug Discovery & Development**. 12: 240-245.

D'Angiolella V., Mari C., Nocera D., Rametti L., **Grieco D.** (2003). The Spindle Checkpoint Requires Cyclin-Dependent Kinase Activity. **Genes & Development**. Vol. 17, Pp. 2520-2525.

Costanzo V, Robertson K., Bibikova M., Kim E., **Grieco D.**, Gottesman M. E., Carrol D., Gautier J. (2001). Mre11 Protein Complex Prevents Double-Strand Break Accumulation During Chromosomal Dna Replication. **Molecular Cell**. Vol. 8, Pp. 137-147.

D'Angiolella V., Costanzo V, Gottesman M. E., Avvedimento E.V., Gautier J., **Grieco D.** (2001). Role For Cyclin-Dependent Kinase 2 In Mitosis Exit. **Current Biology**. Vol. 11, Pp. 1221-1226.

Costanzo V, Robertson K., Ying C., Kim E., Avvedimento E.V., Gottesman M. E., **Grieco D.**, Gautier J. (2000). Reconstitution Of An Atm-Dependent Checkpoint That Inhibits Chromosomal DNA Replication Following Dna Damage. **Molecular Cell**. Vol. 6, Pp. 649-659.

Grieco D., Porcellini A., Avvedimento V. E., Gottesman M. E. (1996). Requirement For cAMP-Pka Pathway Activation By M Phase Promoting Factor In The Transition From Mitosis To Interphase. **Science**. Vol. 271, Pp. 1718-1722.