DIPARTIMENTO DI MEDICINA MOLECOLARE

CURRICULUM DIDATTICO-SCIENTIFICO DEL PROF. AGNESE PO

DATI PERSONALI

Nome e Cognome AGNESE PO

Dipartimento

MEDICINA MOLECOLARE

Indirizzo

Telefono lab 06 49255133

Fax

E-mail agnese.po@uniroma1.it

Settore Scientifico-Disciplinare: MED/46
Orario di Ricevimento:

ATTUALE POSIZIONE

- RTD-B

CARRIERA E TITOLI

1/7/2016 – present: RTD-B presso il dipartimento di Medicina Molecolare, Università di Roma La Sapienza
1/7/2015 – 30/06/2016: Assegnista di ricerca presso il dipartimento di Medicina Molecolare, Università di Roma La Sapienza
1/5/2012 – 30/04/2015: RTD-B presso il dipartimento di Medicina Molecolare, Università di Roma La Sapienza
1/1/2012 – 30/4/2012: post doctoral fellow RTD-B presso il dipartimento di Medicina Molecolare, Università di Roma La Sapienza
1/1/2009 - 31/12/2011: post doctoral fellow FIRC-AIRC

ATTIVITA' DIDATTICA

1) 2014-2015: Sapienza University of Rome, Degree Course in "Tecniche di Laboratorio Biomedico, sede di Pozzilli": Corso: BASI FISIOPATOLOGICHE DELLE MALATTIE
2) Sapienza University of Rome, Degree Course in Medicine and Surgery "F", International Medical School. Elective Course: "Emerging research areas in cancer: microRNAs and the ubiquitin system" and Monographic course "Stem cells and Cancer Stem Cells" (parte del corso PATHOLOGY AND PATHOPHYSIOLOGY II).

ATTIVITA' SCIENTIFICA

L'attività di ricerca è volta principalmente all'identificazione e alla caratterizzazione dei meccanismi molecolari coinvolti nei tumori cerebrali e in tumori solidi, con particolare attenzione al ruolo delle cellule staminali tumorali (cancer stem cells, CSC) e alla via del segnale di Hedgehog. La ricerca riguarda inoltre la caratterizzazione delle cellule staminali neurali (neural stem cells, NSC).
La ricerca della dott. Po riguarda inoltre il ruolo degli RNA non codificanti, sia microRNA che long non-coding RNA sia nella patobiologia che come marcatori di malattia in diversi contensti, con particolare attenzione ai tumori cerebrali e al diabete di tipo 2.

PUBBLICAZIONI SCIENTIFICHE

A. Peer reviewed publications of Agnese Po

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1. Laneve P, Po A, Favia A, et al. The long noncoding RNA linc-NeD125 controls the expression of medulloblastoma driver genes by microRNA sponge activity. Oncotarget (2017) 10.18632/oncotarget.16049

2. Po A, Silvano M, Miele E et al. Noncanonical GLI1 signalling promotes stemness features and in-vivo growth in lung adenocarcinoma. Oncogene, Accepted for publication on february 27th, 2017

3. Po A, Begalli F, Abballe L et al β-Arrestin1/miR-326 Transcription Unit Is Epigenetically Regulated in Neural Stem Cells Where It Controls Stemness and Growth Arrest. Stem Cells International Volume 2017 (2017), Article ID 5274171, doi: 10.1155/2017/5274171

4. Di Giannatale A, Carai A, Cacchione A, et al Anomalous vascularization in a Wnt medulloblastoma: a case report. BMC Neurol. 2016 Jul 15;16:103. doi: 10.1186/s12883-016-0632-1

5. Folgiero V, Miele E, Carai A, et al IDO1 involvement in mTOR pathway: a molecular mechanism of resistance to mTOR targeting in medulloblastoma. Oncotarget, 2016 May 11. doi: 10.18632/oncotarget.9284.

6. Catanzaro G, Besharat ZM, Garg N, et al MicroRNAs-Proteomic Networks Characterizing Human Medulloblastoma-SLCs. Stem Cells Int. 2016;2016:2683042. doi: 10.1155/2016/2683042. Epub 2016 Jan 6.

7. Moavero R, Folgiero V, Carai A, et al Metastatic Group 3 Medulloblastoma in a Patient With Tuberous Sclerosis Complex: Case Description and Molecular Characterization of the Tumor. Pediatr Blood Cancer. 2016 Apr;63(4):719-22. doi: 10.1002/pbc.25851. Epub 2015 Dec 2.

8. Cefalo MG, Carai A, Miele E, et al. Human iPSC for Therapeutic Approaches to the Nervous System: Present and Future Applications. (2015) Stem Cells International, Article ID 580534, Accepted 16 July 2015, in press

9. Silvano M, Miele E, Valerio M, et al. A Consequences of Simulated Microgravity in Neural Stem Cells: Biological Effects and Metabolic Response (2015). J Stem Cell Res Ther 2015 5:289. doi: 10.4172/2157-7633.1000289

10. Miele E, Mastronuzzi A, PO et al. Characterization of medulloblastoma in Fanconi Anemia: a novel mutation in the BRCA2 gene and SHH molecular subgroup. (2015) Biomark Res. Jun 6;3:13. doi: 10.1186/s40364-015-0038-z. eCollection 2015.

11. Ronci M, Catanzaro G, Pieroni L, et al. Proteomic analysis of human sonic hedgehog (SHH) medulloblastoma stem-like cells. (2015) Mol Biosyst. Jun;11(6):1603-11. doi: 10.1039/c5mb00034c.

12. Infante P, Mori M, Alfonsi R, et al. Gli1/DNA interaction is a druggable target for Hedgehog-dependent tumors. (2015). EMBO Journal, vol. 34; p. 200-217, ISSN: 0261-4189, doi: 10.15252/embj.201489213

13. Mastronuzzi A, Miele E, PO A. et al. Large cell anaplastic medulloblastoma metastatic to the scalp: tumor and derived stem-like cells features. (2014). BMC CANCER, vol. 14; p. 262-, ISSN: 1471-2407, doi: 10.1186/1471-2407- 14-262

14. Sebastiani G, PO A., Miele E et al. MicroRNA-124a is hyperexpressed in type 2 diabetic human pancreatic islets and negatively regulates insulin secretion. (2014). Acta Diabetologica, ISSN: 0940-5429, doi: 10.1007/s00592-014-0675-y

15. Miele E, Buttarelli FR, Arcella A et al. High-throughput miRNAs profiling of pediatric high-grade gliomas. (2014) Neuro-oncology. doi:10.1093/neuonc/not215.

16. Garg N, PO A, Miele E et al. microRNA-17-92 cluster is a direct Nanog target and controls Neural Stem Cell through Trp53inp1. (2013) EMBO J. 2013 Oct 30;32(21):2819-32. doi: 10.1038/emboj.2013.214

17. Mazzà D, Infante P, Colicchia V et al. PCAF ubiquitin ligase activity inhibits Hedgehog/Gli1 signaling in p53-dependent response to genotoxic stress. (2013) Cell Death Differ. Dec;20(12):1688-97. doi: 10.1038/cdd.2013.120

18. PO A, Ferretti E, Miele E et al. Hedgehog controls neural stem cells through p53-independent regulation of Nanog. (2010) EMBO Journal Vol. 29 (15) P. 2646-58. Issn: 0261-4189.

19. Mancarelli MM, Zazzeroni F, Ciccocioppo L et al. The tumor suppressor gene KCTD11REN is regulated by Sp1 and methylation and its expression is reduced in tumors. (2010) Molecular Cancer. vol 9:172. eISSN: 1476-4598.

20. Ferretti E, De Smaele E, PO A et al. Microrna Profiling In Human Medulloblastoma. (2009). International Journal Of Cancer, Vol. 124; P. 568-577, Issn: 0020-7136.

21. De Smaele E, Fragomeli C, Ferretti E et al. An Integrated Approach Identifies Nhlh1 And Insm1 As Sonic Hedgehog- Regulated Genes In Developing Cerebellum And

Medulloblastoma. (2008). Neoplasia, Vol. 10; P. 89-98, Issn: 1522-8002.

22. Ferretti E, De Smaele E, Miele E et al. Concerted Microrna Control Of Hedgehog Signalling In Cerebellar Neuronal Progenitor And Tumour Cells. (2008). EMBO Journal, Vol. 27; P. 2616-2627, Issn: 0261-4189.

23. Ferretti E, Tosi E, PO A et al. Notch Signaling Is Involved In Expression Of Thyrocyte Differentiation Markers And Is Down-Regulated In Thyroid Tumors. (2008). The Journal Of Clinical Endocrinology And Metabolism, Vol. 93; P. 4080-4087, Issn: 0021-972x

24. Di Marcotullio L, Ferretti E, Greco A et al. Numb Is A Suppressor Of Hedgehog Signaling And Targets Gli1 For Itch-Dependent Ubiquitination. (2006). Nature Cell Biology, Vol. 8; P. 1415- 1423, Issn: 1465-7392

25. Ferretti E, Di Marcotullio L, Gessi M et al. Alternative Splicing Of The Erbb-4 Cytoplasmic Domain And Its Regulation By Hedgehog Signaling Identify Distinct Medulloblastoma Subsets. (2006). Oncogene, Vol. 25; P. 7267-7273, Issn: 0950-9232