BIOSKETCH

Sérgio Jerónimo Rodrigues Dias, PhD

Date and Place of Birth: 6 January 1971, Lisboa, Portugal

Education

- Licenciatura in Biology, University of Lisbon (Faculty of Sciences), 1/90-7/94
- PhD in Tumor Immunology, Imperial Cancer Research Fund/University College London, UK, 6/95-12/98

Professional Training/Appointments

- Research Associate, Tropical Medicine, Institute of Tropical Higiene and Medicine of Lisbon, 1/94-12/94
- Research Associate, Tumor Immunology, Imperial Cancer Research Fund, London, 1/95-7/95
- PhD Student, Tumor Immunology, Imperial Cancer Research Fund, London, 7/95-12/98
- Post-doctoral Fellow, Hematology/Oncology Division, Cornell University Medical College, New York, 2/99-12/01.
- Group leader (of the Angiogenesis Laboratory), Centro de Investigação em Patobiologia Molecular(CIPM)/Portuguese Institute of Oncology (IPOFG) and Instituto Gulbenkian Ciência, Lisbon, 12/01-present.
- Principal Investigator and Director of CIPM/IPOFG. 02/04-present.

Selected Publications (of a total of 44)

- Dias S, et al. Autocrine stimulation of VEGFR-2 activates human leukemic cell growth and migration. Journal of Clinical Investigation, 106: 511-521 (2000).
- Dias S, et al. Inhibition of both paracrine and autocrine VEGF/ VEGFR-2 signaling pathways is essential to induce long-term remission of xenotransplanted human leukemias. Proc Natl Acad Sci (PNAS), 98(19):10857-62 (2001).
- Lyden D, Hattori K, Dias S, et al. Impaired recruitment of bone-marrow-derived endothelial and hematopoietic precursor cells blocks tumor angiogenesis and growth. Nature Medicine, 7(11):1194-201 (2001).

- Dias S, et al. VEGF-C signaling through Flt-4 (VEGFR-3) Mediates Leukemic cell proliferation and survival. Blood, 99: 2179-2184 (2002).
- Dias S, et al. VEGF promotes survival of leukemic cells by Hsp90-mediated induction of Bcl-2 expression. Blood, 99(7):2532-40 (2002).
- Heissig B, Hattori K, Dias S et al. Recruitment of Stem and Progenitor Cells from the bone marrow niche requires MMP-9 mediated release of kit-ligand. Cell, 109(5):625-37 (2002).
- Hattori K, Heissig B, Wu Y, Dias S, et al. Placental growth factor reconstitutes hematopoiesis by recruiting VEGFR1(+) stem cells from bone-marrow microenvironment. Nature Medicine, 8(8): 841-49 (2002).
- Bais C, Van Geelen A, Eroles P, Mutlu A, Chiozzini C, Dias S, et al. Kaposi's sarcoma associated herpesvirus G protein-coupled receptor immortalizes human endothelial cells by activation of the VEGF receptor-2/ KDR. Cancer Cell. 3(2):131-43 (2003).
- Constantino Rosa Santos S and Dias S. Internal and external autocrine VEGF/KDR loops regulate survival of subsets of acute leukemia. Blood. 103(10): 3883-9 (2004).
- Fragoso R, Pereira T, Wu Y, Zhu Z, Cabeçadas J and Dias S. VEGFR-1 (FLT-1) activation modulates acute lymphoblastic leukemia localization and survival within the bone marrow, determining the onset of extramedullary disease. Blood, 15;107(4):1608-16 (2006).
- Casalou C, Fragoso R, Moura Nunes J and Dias S. VEGF/PLGF induces leukemia cell migration via P38/ERK1/2 kinase pathway, resulting in Rho GTPases activation and caveolae formation. Leukemia. 21: 1590-1594 (2007).
- Santos SCR et al. VEGF and VEGFR-2 (KDR) internalization is required for endothelial recovery during wound healing. Experimental Cell Research. 313(8):1561-1574 (2007)
- Igreja C et al. Characterization and clinical relevance of circulating and biopsy-derived endothelial progenitors in lymphoma patients. Haematologica-The Hematology Journal. 92(4):469-77 (2007).
- Igreja C et al. Detailed Molecular characterization of cord blood derived Endothelial Progenitors. Experimental Hematology, 36(2):193-203 (2008).

- Caiado F, Real C, Carvalho T, Dias S. Notch pathway modulation on bone marrow-derived vascular precursor cells regulates their angiogenic and wound healing potential. PLoS ONE. 2008;3(11):e3752. Epub 2008 Nov 18.
- MicroRNA expression profiling in bone marrow: implications in hematological malignancies. Costa A, Osório C, Dias S. Biotechnol J. 2009 Jan;4(1):88-97.

Personal References

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