

BIOGRAPHICAL SKETCH

NAME	John Robert Brucato	POSITION TITLE	Dr
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EDUCATION/TRAINING

INSTITUTION(S) AND LOCATION	DEGREE(S) (if applicable)	YEAR(S)	FIELD(S) OF STUDY
University of Catania, Italy	Laurea 110/110 cum laude	1995	Physics
INAF-OAC Napoli, Italy	Research fellow	1996-98	Study of materials of astrophysical interest

RESEARCH EXPERIENCE:

- Spectroscopic (Vis-MIR) characterization of the physical-chemical properties of ices at cryogenics temperatures under bombardment with high energy ions simulating interplanetary and interstellar process;
- Spectroscopic (MIR-FIR) characterization of asteroids and satellites surfaces.
- Laboratory physical-chemical characterization of cosmic dust analogues such as carbonaceous materials and silicates.
- Photosynthesis of biomolecules in presence of inorganic catalysts under space simulated conditions.
- Laboratory analysis of IDPs, meteorites and Stardust samples.

PROFESSIONAL ACTIVITIES AND SERVICE:

- President of Italian Astrobiology Society (since 2006-).
- Councillor member of European Astrobiology Network Association - EANA (since 2007-).
- Secretary of International Society for the Study of the Origin of Life - ISSOL (since 2009-).
- Member of ESA - Solar System Working Group (2007-2009).
- Member of ESA - Planetary Protection Working Group (since 2007-).
- Member of ESA - Science Study Team of Marco Polo study mission (2007-2009).
- Ad Hoc Group member of European Science Foundation (2007-2008).
- Associate scientist of CIRS instrument on NASA - Cassini mission (since 2005-).
- National scientific responsible of ASI - astrobiology research project (2007-2010).
- National scientific responsible of ASI - Marco Polo and Cross Scale study (since 2009-).
- Co-Investigator of project LANDS on Stardust sample analyses (since 2006-).
- Co-Investigator of DUSTER instrument on ASI-CNES balloon flight (since 2005-).
- Co-Investigator of MEDUSA instrument on ESA - ExoMars mission (since 2003-).
- Co-Investigator of LMC instrument on ESA - ExoMars mission (since 2010-).
- Co-Investigator of instrument DARLING for International Space Station (since 2004-).

He is author of about 60 scientific papers published in international refereed journals.

Present position (since 1999): Tenure position as Astronomer Researcher at the INAF-Astrophysical Observatory of Arcetri, Florence Italy