

# Galaxy Classification and Evolution

The word "galaxy," having been used in English since the fourteenth century, is as old as this language. Galaxy was derived from the French, Greek, and Latin words for milk. To pre-industrial people, lacking bright lights, the Milky Way, a band of diffuse light stretching across the dark sky, would have been as familiar as the planets and the Moon. This band of stars completely encircles Earth. It is the disk of our Galaxy seen from the inside (but not the center). With unaided eyes one other galaxy can be seen in the northern sky, the Andromeda nebulae, as it was called before its true nature was known. It is a faint fuzzy patch in the region of the sky containing the stars of the constellation Andromeda. Two galaxies, the Large and Small Magellanic Clouds, can be seen with unaided eyes in the southern sky from south of about 10 degrees north latitude. The Magellanic Clouds were described by sailors from Magellan's voyage, and are now known to be small irregular galaxies, that orbit the Milky Way. Our Sun and all of the individual stars that can be seen with unaided eyes from Earth are part of the Milky Way.

Immanuel Kant (1724-1804) speculated that the faint patches of light, which improved telescopes revealed in large numbers, were "...island universes - in other words, Milky Ways..." Astronomers of the eighteenth century identified celestial objects as being either stellar or non-stellar, with the second category including gaseous nebulae, planetary nebulae, hazy star clusters, and faint lens-shaped formations. If these objects were nearby, with distances comparable to those of observable stars, they would have to be luminous clouds of gas within our Galaxy. If they were very remote, far beyond the foreground stars of the Galaxy, they would be systems containing billions of stars. Kant's speculation was rejected for over 150 years. Edwin Hubble published a paper in 1929, "A Spiral Nebula as a Stellar System," which showed that the fuzzy patch in the constellation Andromeda is a system of numerous individual stars, star clusters, and dust clouds. The Andromeda galaxy, as it is now known, is 2 million light-years away, and is the nearest spiral galaxy to the Milky Way. Hubble also proposed a classification scheme based entirely on the visual appearance of a galaxy on a photographic plate. His system has three basic categories: elliptical, spiral, and irregular galaxies. The elliptical and spiral galaxies are subdivided further, as illustrated below. This is known as the "Hubble Tuning Fork."



# Galaxy Classification And Evolution Laboratory Answers

**S Marginson**



## **Galaxy Classification And Evolution Laboratory Answers:**

**The Handy Astronomy Answer Book** Charles Liu, 2013-09-01 Unraveling the Mysteries of the Night Sky Fact filled and image rich guide to the principles of astronomy its history a host of fun facts and helpful tips for the backyard or budding astronomers We look to the heavens and wonder in awe Shooting stars constellations planets galaxies and the unknown What is out there Who is out there How did the stars and planets come to be What does it all mean The last few years have brought an explosion of information leading to serious consideration of questions once deemed crazy Do other universes exist Are there planets that could harbor life From a neutron star to a black hole from the Higgs Boson particle to cosmic strings from the speed of light to gamma radiation plus a universe of ideas and concepts in between The Handy Astronomy Answer Book takes you on a journey through the history science and the latest findings in astronomy This book tells the story of astronomy of the cosmos and its contents and of humanity s efforts throughout history to unlock its secrets and solve its mysteries You ll learn the answers to more than 1 000 questions on astronomy and space including What is astrobiology What is the Dresden Codex and what does it say about Mayan astronomy What happened between Galileo and the Catholic Church What is the longest time that a human has been in space What is a gamma ray burst How do I use a star chart to find stars and constellations How do space and time relate to one another What were considered to be NASA s four great observatories in space How do astronomers map the night sky How many constellations are there How has the discovery of exoplanets affected the search for extraterrestrial life Could a moon found in a star s habitable zone support life as we know it How will the universe end From the basic physics and history of astronomy to using star charts telescopes and other helpful hints for the home astronomer and from space mission programs to the greatest adventure of all the search for life beyond Earth The Handy Astronomy Answer Book includes information on virtually every topic related to outer space Containing over 120 illustrations and photos this book brings the wonders of our universe to life [Dendritic Cell and Macrophage](#)

[Nomenclature and Classification](#) Florent Ginhoux, Martin Guillemin, Shalin Naik, 2016-07-14 The mononuclear phagocyte system MPS comprises dendritic cells DCs monocytes and macrophages M s that together play crucial roles in tissue immunity and homeostasis but also contribute to a broad spectrum of pathologies They are thus attractive therapeutic targets for immune therapy However the distinction between DCs monocytes and M subpopulations has been a matter of controversy and the current nomenclature has been a confounding factor DCs are remarkably heterogeneous and consist of multiple subsets traditionally defined by their expression of various surface markers While markers are important to define various populations of the MPS they do not specifically define the intrinsic nature of a cell population and do not always segregate a bona fide cell type of relative homogeneity Markers are redundant or simply define distinct activation states within one subset rather than independent subpopulations One example are the steady state CD11b DCs which are often not distinguished from monocytes monocyte derived cells and macrophages due to their overlapping phenotype Lastly monocyte

fate during inflammation results in cells bearing the phenotypic and functional features of both DCs and M s significantly adding to the confusion In fact depending on the context of the study and the focus of the laboratory a monocyte derived cell will be either be called monocyte derived DCs or macrophages Because the names we give to cells are often associated with a functional connotation this is much more than simple semantics The name we give to a population fundamentally changes the perception of its biology and can impact on research design and interpretation Recent evidence in the ontogeny and transcriptional regulation of DCs and M s combined with the identification of DC and M specific markers has dramatically changed our understanding of their interrelationship in the steady state and inflammation In steady state DCs are constantly replaced by circulating blood precursors that arise from committed progenitors in the bone marrow Similarly some M populations are also constantly replaced by circulating blood monocytes However others tissue M s are derived from embryonic precursors are seeded before birth and maintain themselves in adults by self renewal In inflammation such differentiation pathways are fundamentally changed and unique monocyte derived inflammatory cells are generated Current DC monocyte and M nomenclature does not take into account these new developments and as a consequence is quite confusing We believe that the field is in need of a fresh view on this topic as well as an upfront debate on DC and M nomenclature Our aim is to bring expert junior and senior scientists to revisit this topic in light of these recent developments This Research Topic will cover all aspects of DC monocyte and M biology including development transcriptional regulation functional specializations in lymphoid and non lymphoid tissues and in both human and mouse models Given the central position of DCs monocytes and M s in tissue homeostasis immunity and disease this topic should be of interest to a large spectrum of the biomedical community

**Nuclear Science Abstracts** ,1973      **Teachers Manuyal to Accompany Discovering Astronom Y** Robbins,1995-03-15      Scientific and Technical Aerospace Reports ,1991      **The Astronomical Journal** ,1997      Resources in Education ,1977-05      **Science** ,1966      **Detecting the Unknown** Barrett

Williams,ChatGPT,2025-06-24 Detecting the Unknown A Journey into the Cosmic Frontier Step beyond the stars and delve into the captivating mysteries of the universe with Detecting the Unknown This riveting guide unravels the secrets of extraterrestrial life interweaving science technology and imagination to explore one of humanity s most profound questions Are we truly alone in the cosmos Begin your expedition by traversing the rich history of cosmic companionship From ancient conjectures to modern scientific pursuits this eBook illuminates historical attempts to contact extraterrestrial intelligence and the evolution of the Search for Extraterrestrial Intelligence SETI Witness how this quest has transformed from simple radio signals to complex data analytics peppered with breakthroughs and challenges Unlock the potential of Software Defined Radio SDR and discover how this revolutionary technology is aiding modern SETI initiatives Learn how SDR technology with its advanced hardware and software interfaces offers unparalleled advantages over traditional radio systems in unraveling the alien frequencies that may be floating through space Dive into the heart of data collection and analysis

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