

# Life Sciences Taxonomy Example

Deliver strategic insight through your own technology lens. Here's a sample of the technologies from a Life Sciences taxonomy that could be part of your custom taxonomy with CIPHER.

Technologies	Scopes
<b>Diagnostics &amp; Treatment</b>	Artificial intelligence (AI) and machine learning (ML) used for determining appropriate treatment for patient or diagnosing a patient, figuring out how a patient would react to a drug. This includes for example drug disease matching, support in medical treatment decision-making, predicting prognosis of disease and identifying drug-to-drug interactions in medical content among other things. AI and ML for medical image diagnostics not included here.
<b>Drug Development</b>	Artificial intelligence (AI) and machine learning (ML) used in the drug development process. This includes, for example, finding new drugs, new targets for existing drugs, investigating drug actions, adverse effects of drugs, drug safety, estimating drug efficacy among other things. Excluding e.g. determining appropriate treatment for patient or diagnosing a patient, figuring out how a patient would react to a drug.
<b>Medical imaging</b>	Artificial intelligence (AI) and machine learning (ML) used to diagnose or assist in diagnosis of a patient by medical images such as x-rays, ultrasound or CT images. Excluded: Image recognition of body parts (e.g. hands or ears) and identification of disease in plants.
<b>Bioprocessing and Biomanufacturing (Broad)</b>	Bioprocessing systems, bioprocess purification systems or any other systems that uses complete living cells or their components (e.g., bacteria, enzymes, chloroplasts) to obtain desired products (e.g. chemicals, fuels, pharmaceutical components). Excludes: microbial used for degradation of e.g. pollutants, fermentation tanks themselves and biosuppressing microorganisms.
<b>Fuel</b>	Production of fuel or fuel precursors with the help of microorganisms. Excludes transgenic plants for fuel production and enhanced oil recovery using microorganisms.

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Custom Taxonomies

# Life Sciences Taxonomy Example (cont.)

Technologies	Scopes
<b>3D Bio-printing</b>	3D bioprinting has many applications which ranges from printing tissues and organs such as blood vessels or an entire heart to food and clothing materials. 3D printing any biological materials as well as ink and printer parts specifically intended for used in such processes are included.
<b>Bio-digital twins</b>	A bio-digital twin is model that is a virtual copy of an actual process, system or organism. This includes computer implemented modeling, simulation and analysis of chemical and biochemical reactions, computational/digital models of organs and modeling and analyzing of biological networks among other things. This also includes bio-digital twins used for educational purposes.