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1st ACMM online

The 1st Asian Conference on Molecular Magnetism

March 7th-10th, 2021, online



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Ministry of Education, Culture, Sports, Science, and Technology Grant-in-Aid
"Scientific Research on Innovative Areas" for FY2016 - 20
Coordination Asymmetry:

Grant-in Aid for Scientific Research Areas
"Coordination Asymmetry"



Grant-in Aid for Scientific Research Areas
"Soft Crystal"



Magnetochemistry (MDPI)



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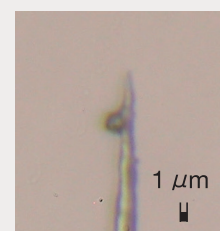
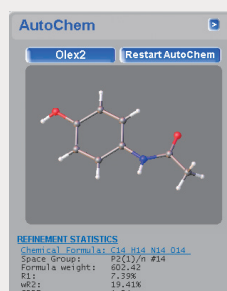
Break the size barrier!

Think your crystal is too small for X-ray crystallographic analysis?

Think again! Even tiny microcrystals can yield full structures

A tiny ($1\ \mu\text{m} \times 2\ \mu\text{m} \times 3\ \mu\text{m}$) crystal flake was selected from the powder contained in a pain killer capsule and subjected to single crystal structure analysis. After 30 min, AutoChem revealed the structure along with the absolute configuration, confirming that the crystal consists of acetaminophen.

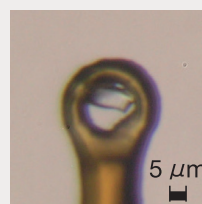
Space group	$P2_1/n$
Chemical formula	$\text{C}_8\text{H}_9\text{NO}_2$
Formula weight / ASU	602.42
Total time	34 m 25 s
Dose time	34 m 20 s
R_1 (%)	7.36
wR_2 (%)	19.09
Goodness of fit	1.04



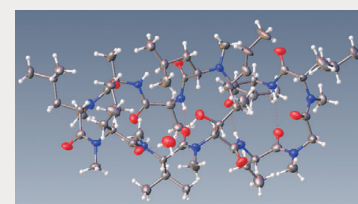
$3 \times 2 \times 1\ \mu\text{m}^3$
Vol: $6\ \mu\text{m}^3$

Finish measurement before it decays

The structure analysis of cyclosporine A was a challenge because the crystal was small and rapidly damaged by X-rays. Nevertheless, accurate measurement of the weak anomalous signals was required because the drug consists of optically active amino acid derivatives. The HyPix-Arc 150° detector enabled structure determination in 2 hours because of its wide capture angle of diffracted X-rays.



$25 \times 10 \times 6\ \mu\text{m}^3$
Vol: $1,500\ \mu\text{m}^3$



Cyclosporine A: $\text{C}_{62}\text{H}_{111}\text{N}_{11}\text{O}_{12}$
Molecular Weight: 1202.61
 $R_1=7.21\%$, Flack=-0.0 (2)



XtaLAB SynergyCustom FR-X HyPix-Arc150°

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From Material Evaluation (Specific Surface Area and Pore Size Distribution) to Gas and Vapor Separation Performance Evaluation!

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High Accuracy Gas / Vapor Adsorption Amount Measurement Instrument

BELSORP®-maxII

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Pore size distribution = 0.35 to 500 nm (diameter)
- Achieves even higher throughput evaluations with simultaneous measurement of three specimens at extremely low pressure and a maximum of four specimens.
- Significantly reduced measurement time (valve-activated control and GDO).
- Enables high-precision measurement with low sample volume by way of our Advanced Free Space Measurement method (AFSM™).
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BELSORP®-maxII-HV

- The functions of BELSORP-maxII enable evaluation of gas and vapor (water vapors and VOC) adsorption up to an adsorption temperature of 70° C (depending on the adsorbate).
- Dedicated analysis software BELMaster Ver. 7 enables the evaluation of not only BET and pore size distribution but also adsorption rates.

Applications: Cement, concrete, building materials, desiccant air-conditioning, low-temperature exhaust heat utilization, batteries

Specifications of High Pressure Gas Adsorption Amount Measurement

BELSORP®-maxII-HP

- The functions of BELSORP-maxII enable the adsorption measurement of high pressure gas (up to a maximum of 1 MPa) up to an adsorption temperature of 70° C.
- Dedicated analysis software BELMaster Ver. 7 enables the evaluation of not only BET and pore size distribution but also adsorption rates.

Applications: CO₂ reduction, energy storage (CH₄, MCH, H₂), and air separation, etc.

		BELSORP-maxII	BELSORP-maxII-HV	BELSORP-maxII-HP
Pressure gauge	1MPa	—	—	1 unit
	133kPa	6 units	6 units	5 units
	1.33kPa	4 units max	4 units	3 units
	13.3Pa	3 units max	—	2 units
Air thermostatic chamber		50°C	80°C	50°C
Measurement range	N ₂ @77K	P/P ₀ =1E-8~0.997	P/P ₀ =1E-6~0.997	P/P ₀ =1E-8~0.997
	High pressure Adsorption	—	—	~950kPa
	H ₂ O	P/P ₀ =0.95@40°C	P/P ₀ =0.95@70°C	P/P ₀ =0.95@40°C

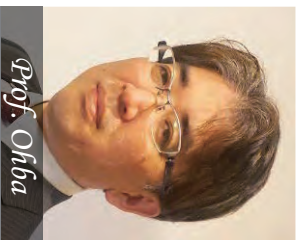
MicrotracBEL Corp.

8-2-52 Nanko-Higashi, Suminoe-ku, Osaka 559-0031, Japan
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<https://www.microtrac.com/>

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Prof. Ohba

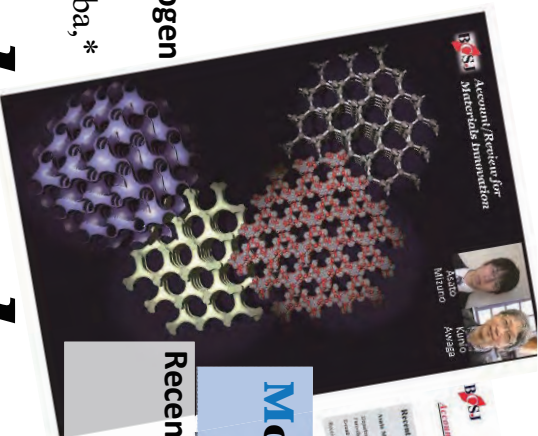
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Swift and Efficient Nuclear Spin Conversion of Molecular Hydrogen Confined in Prussian Blue Analogs

Y. Ohtsubo, A. Mishima, A. Hori, R. Matsuda, R. Ohtani, M. Ohba,*
Chem. Lett. **2020**, 49, 149-152.



Nuclear Spin Conversion



Molecular Spin Gyroid

Recent Developments in Molecular Spin Gyroid Research

A. Mizuno,* Y. Shuku, K. Awaga,*
Bull. Chem. Soc. Jpn. **2019**, 92, 1068-1093.



Dr. Mizuno

[OPEN ACCESS]



Prof. Ohkoshi

Broadband-Millimeter-Wave Absorber Based on e-(Ti^{IV}Co^{II})_xFe^{III}_{2-2x}O₃ for Advanced Driver Assistance Systems

A. Namai, K. Ogata, M. Yoshikiyo, S. Ohkoshi,*
Bull. Chem. Soc. Jpn. **2020**, 93, 20-25.



Nanomagnets

Molecular Magnetism

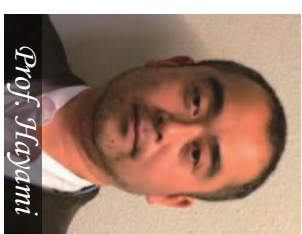
BOJ Chemistry Letters
by The Chemical Society of Japan



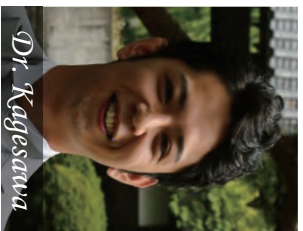
Ferromagnetic Interaction

Ferromagnetically Coupled Hydroxo-bridged Heptanuclear Ni(II) Wheel Cluster with S = 7 Ground Spin State

S. Kusumoto, Y. Kim, M. Nakamura, L. F. Lindoy, S. Hayami,* *Chem. Lett.* **2020**, 49, 24-27.



Prof. Hayami



Dr. Kagesawa

[OPEN ACCESS]

Water-vapor Sensitive Spin-state Switching in an Iron(III) Complex with Nucleobase Pendants Making Flexible Hydrogen-bonded Networks

K. Kagesawa,* Y. Ichikawa, H. Iguchi, B. K. Breedlove, Z. Li, M. Yamashita,* A. Okazawa, W. Kosaka, H. Miyasaka,*
Chem. Lett. **2019**, 48, 1221-1224.

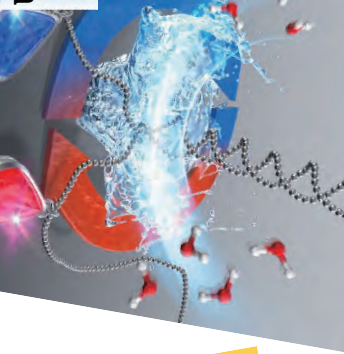


Prof. Yamashita



Prof. Miyasaka

Spin-state Conversion



Organic π-Radical

Trioxotriangulene: Air- and Thermally Stable Organic Carbon-Centered Neutral π-Radical without Steric Protection

K. Sato, T. Takui, *Bull. Chem. Soc. Jpn.* **2018**, 91, 922-931.



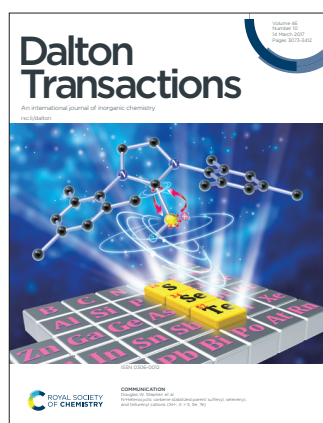
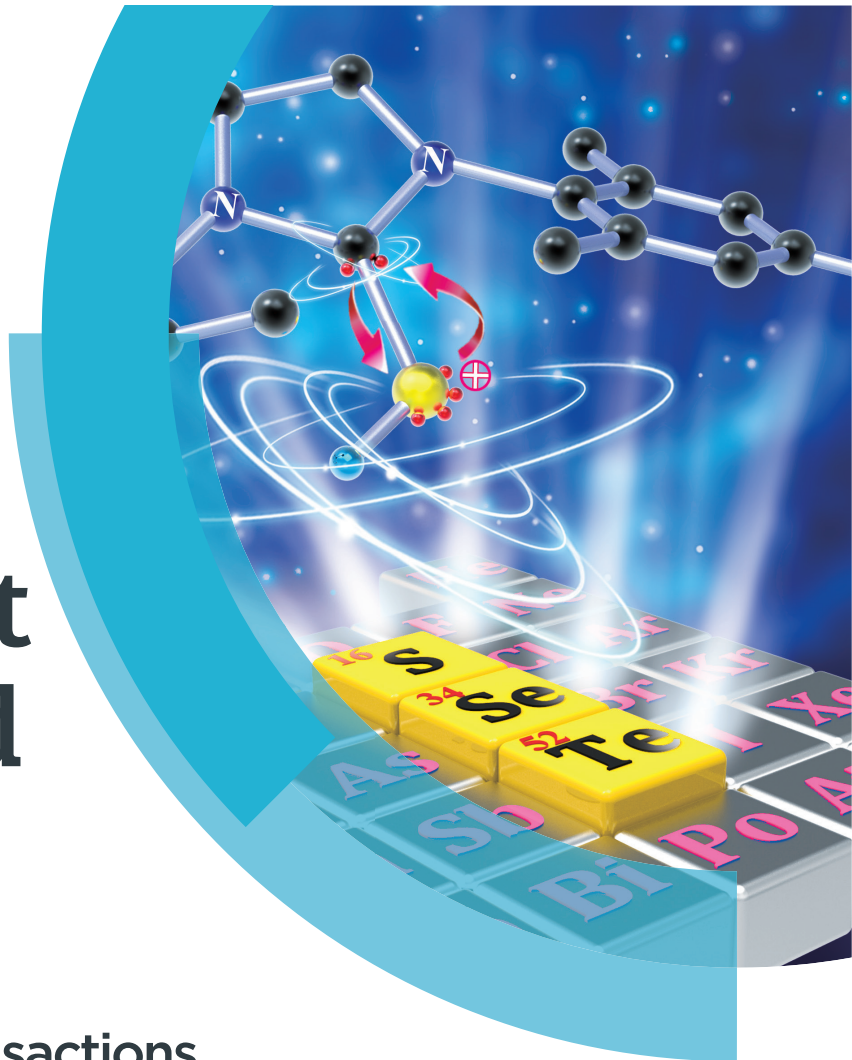
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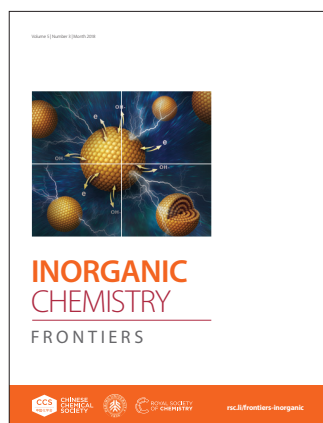
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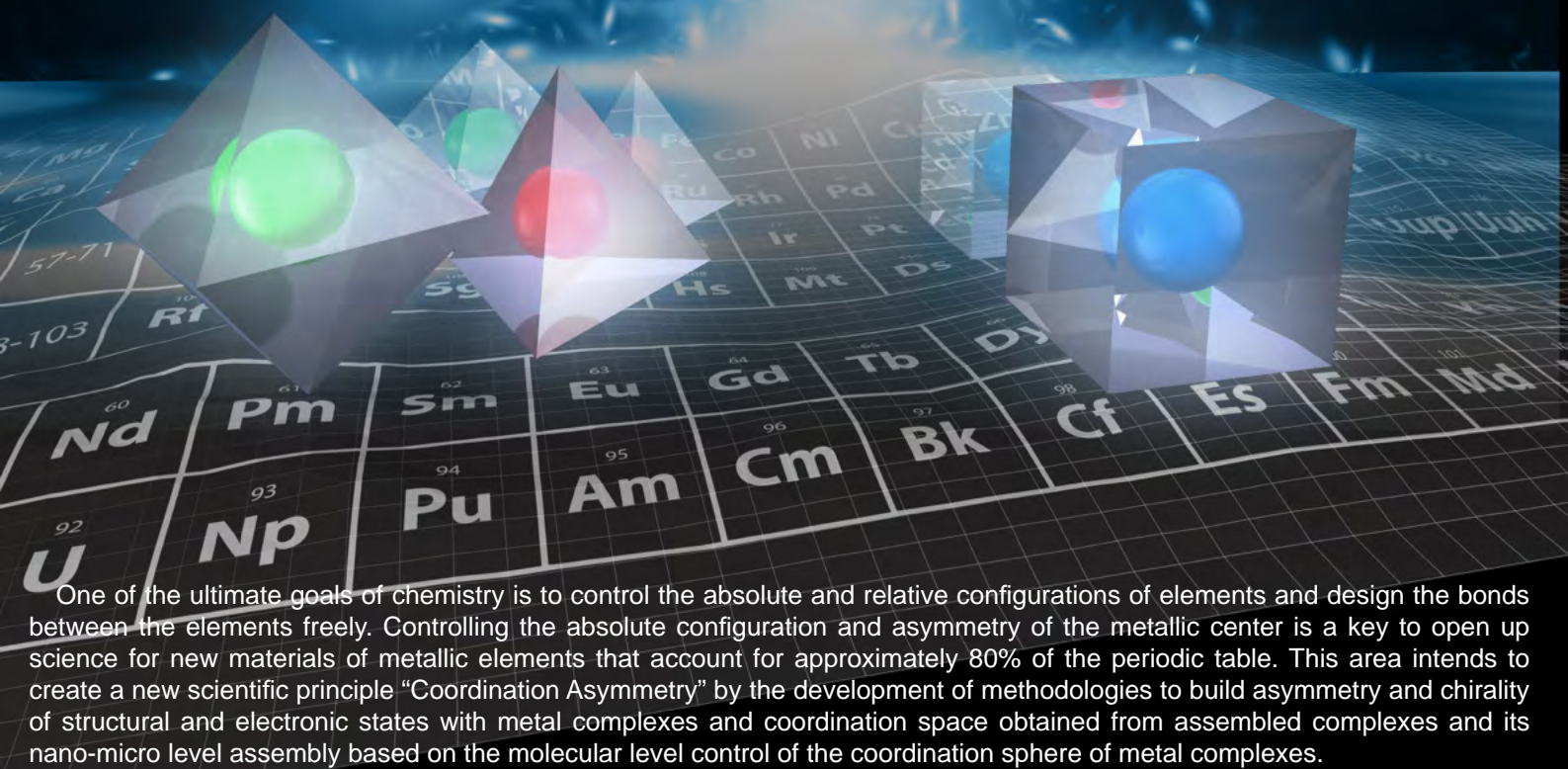


Ministry of Education, Culture, Sports, Science, and Technology Grant-in-Aid
"Scientific Research on Innovative Areas" for FY2016 - 20
Coordination Asymmetry:
Design of Asymmetric Coordination Sphere and Anisotropic Assembly
for the Creation of Functional Molecules

"Coordination Asymmetry"

*Design of Asymmetric Coordination Sphere and
Anisotropic Assembly for the Creation of Functional Molecules*

Website: <http://asymmetallic.jp/>



One of the ultimate goals of chemistry is to control the absolute and relative configurations of elements and design the bonds between the elements freely. Controlling the absolute configuration and asymmetry of the metallic center is a key to open up science for new materials of metallic elements that account for approximately 80% of the periodic table. This area intends to create a new scientific principle "Coordination Asymmetry" by the development of methodologies to build asymmetry and chirality of structural and electronic states with metal complexes and coordination space obtained from assembled complexes and its nano-micro level assembly based on the molecular level control of the coordination sphere of metal complexes.

A01: Molecular asymmetry

Leader: Mitsuhiro Shionoya (U-Tokyo)
Creation of higher-order molecular functions based on quantitative design of asymmetric coordination sphere

A02: Assembly asymmetry

Leader: Nobuo Kimizuka (Kyushu Univ.)
Creation of asymmetric high-order structures based on self-assembly and their functions

A03: Spatial asymmetry

Leader: Takashi Uemura (U-Tokyo)
Creation of asymmetric functional nanospaces exhibiting high selectivity, anisotropy, and directivity

A04: Electron system asymmetry

Leader: Toshiharu Teranishi (Kyoto Univ.)
Creation of chiral material conversion field and chiral electronic properties based on the asymmetrically assembled structures

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SOFT CRYSTALS

Grant-in-Aid for Scientific Research on "Innovative Areas" for FY 2017-21 (Area Number 2903)

Science and Photofunctions of Flexible Response Systems with High Order

Area Organizer

Professor Masako Kato (Department of Chemistry, Faculty of Science, Hokkaido University)

What is our project "Soft Crystals"?

- Purpose of the Research Project -

This project aims to establish a new science concerning "Soft Crystals", which responds to macroscopic gentle stimuli (e.g. vapor exposure, rubbing, and rotation) that exhibit visually remarkable changes such as luminescence and optical properties. This project also aims to develop novel functional materials on the basis of the scientific achievements. "Soft Crystals" are regulated solids with stable and highly ordered structures. However, they are characteristic of facile structural transformations and phase transitions in response to weak but particular stimuli. One of scientifically most important challenges is to clarify the phenomena of the formation and phase-transition of "Soft Crystals". Through the scientific research, we aim to create a new area, which can provide new materials beyond the conventional hard crystals and/or soft matters.

Contents of the Research Project

Research Item A01: Development of Soft Crystals through molecular design & synthesis

Control of Stimulus-response and Functionalization of Luminescent Smart Soft Crystals



Masako Kato
Hokkaido University

Developments of Thermomechanical Properties of Soft Crystals



Satoshi Takamizawa
Yokohama City University

Development of stimulation-responsive soft crystal using the characteristics of silicon-silicon bond



Yoshinori Yamanoi
The University of Tokyo

Research Item A02: Development of Soft Crystals with novel structure & morphology

Mechanistic Study and Development of Novel Functions of Soft Crystals with Molecular Domino Transformation



Hajime Ito
Hokkaido University

Synthesis and Development of Chemiluminescent Soft Crystals for Spatiotemporal Control of the Stimulus-responsive Functions





Takashi Hirano
The University of Electro-Communications

Observation of Reaction Transient against External Fields in Soft Crystals using X-ray Molecular Movie



Ayana Sato-Tomita
Jichi Medical University

Development of Crystal Potential of Metal Complex and Mechanism Analysis of Polymorphic Transition Phenomena



Hitoshi Goto
Toyoashi University of Technology


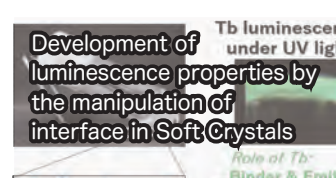
Research Item A03: Development of Soft Crystals with superior physical properties & functions

Development of preparation technologies for metastable states of soft crystals and clarification of their phase-transition phenomena




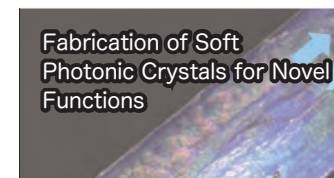
Kazuyuki Ishii
The University of Tokyo

Development of luminescence properties by the manipulation of interface in Soft Crystals



Miki Hasegawa
Aoyama Gakuin University

Fabrication of Soft Photonic Crystals for Novel Functions



Jian Ping Gong
Hokkaido University

Creation of helical biopolymer-integrated softcrystal and its application to photo-electronic devices



Norihisa Kobayashi
Chiba University



magnetochemistry

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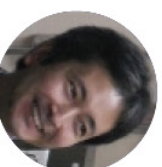
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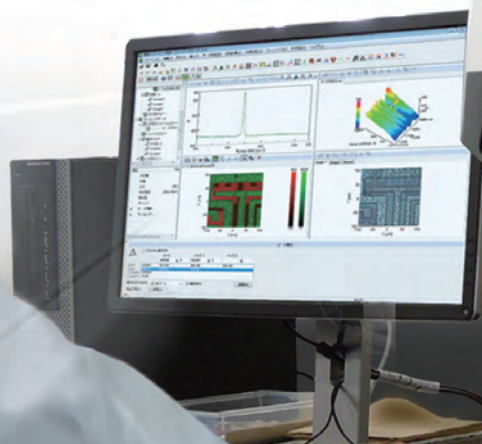
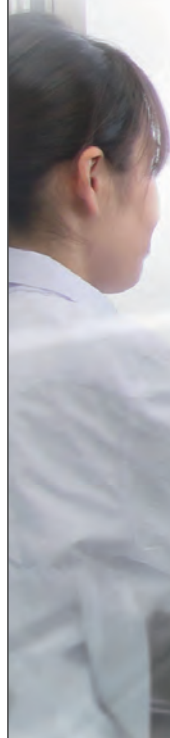
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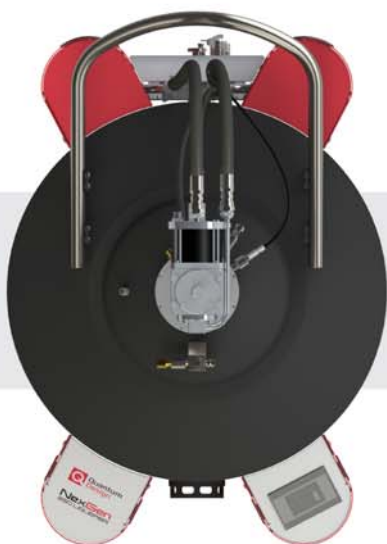
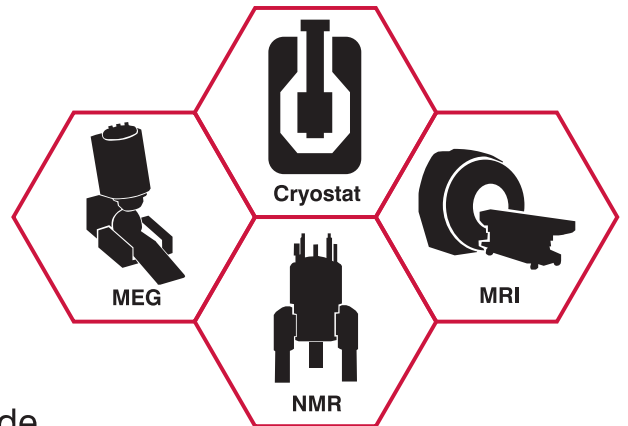
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