



SelectBIO Japan

October 13-14, 2026 Conference

Hotel Nikko Narita @ Tokyo-Narita

Microfluidics, MPS and Rapid Dx

Extracellular Vesicles (EVs)

Lipid Nanoparticles (LNPs)

Space Summit Asia/Pacific-Japan

Organized by SelectBIO Conferences

<https://www.selectbioconferences.com/>

Conference Day 1: Tuesday - October 13, 2026
Microfluidics, Organs-on-Chips
Point-of-Care & Rapid Diagnostics Japan 2026



08:00 Participants Check-In: Conference Registration, Conference Materials Pick-Up, Coffee, Tea and Networking

09:00 **Keynote Presentation**

Development of Microfluidic based Biosensors for Healthcare Purposes

Martyn G Boutelle, Professor of Biomedical Sensors Engineering, Department of Bioengineering, Imperial College London, United Kingdom

09:30 A Point-of-Care Pathogen Detection Using Reagent-Free Nucleic Acid Purification

Levent Yobas, Professor, Hong Kong University of Science and Technology, Hong Kong

10:00 Mid-Morning Coffee and Tea Break and Networking

10:30 Building Cross-Sector Consensus on the Utility of Complex In Vitro Models

Ivan Rusyn, University Professor, Texas A&M University, United States of America

11:00 Decellularized Liver Matrix-based Materials for Liver Tissue Engineering Application

Yung-Te Hou, Professor, National Taiwan University (NTU), Taiwan ROC

11:30 Versatile Microphysiological Systems Enabling Drug Evaluation and Organ Interaction Studies

Hiroshi Kimura, Professor, Micro/Nano Technology Center, Tokai University, Japan

12:00 Keynote Presentation

Advancing MPS toward Practical Implementation: Lessons from Japan's AMED-MPS Projects and a New Monitoring Initiative

Seiichi Ishida, Professor, Graduate School of Engineering, Sojo University; Guest Researcher, National Institute of Health Sciences, Japan

12:30 Networking Lunch – Japanese Bento – Engage with Colleagues Over Lunch

13:30 Technology Spotlight Presentation

Direct Laser Write Technology: What Makes Dilase Systems so Unique for Microfluidic Applications?



Lewis Kikuchi, Technical Adviser, BEAMS, Japan

14:00 From Bench to Market: ABIC's Approach to Developing and Commercializing Organoid and Microphysiological System Technologies

Tony Yung, Chief Commercial Officer, Advanced Biomedical Instrumentation Centre (ABIC), Hong Kong

14:30 NAMs Experiments in Bio Imaging Consortium at Shonan iPark

Kenji Miyamoto, Assistant General Manager, NIKON SOLUTIONS, CO., LTD, Japan

15:00 Mid-Afternoon Coffee and Tea Break and Networking

15:30 Sample Handling System for High-Throughput Field-Resolved Infrared Molecular Fingerprinting

Akash Singh, Microfluidic Scientist, Max Planck Institute of Quantum Optics, Germany

16:00 Advancing Paper-Based Bioanalysis: From Point-of-Care Diagnostics to Bioluminescence Screening

Daniel Citterio, Professor, Department of Applied Chemistry, Faculty of Science and Technology, Keio University, Japan

16:30 Development and Translation of Boncyte® Microphysiological Systems for Renal and Tumor Microenvironment Models

Yoshikazu Kameda, R&D Director, Physios Biotech, Inc., Japan

17:00 Onsite Instrument Demonstration

Onsite, Hands-On Demonstration and Deep Dive of the Particle Metrix Platform for NTA, fNTA and Lipid Nanoparticle (LNP) Analysis



Sven Kreutel, CEO, Particle Metrix, Inc., United States of America and Germany

17:30 Japanese Beer Reception – Networking and Continuation of Instrument Demonstration

18:30 Close of Day 1 of the Conference

Conference Day 1: Tuesday - October 13, 2026
Extracellular Vesicles (EVs) AP-Japan 2026



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12:30 Networking Lunch – Japanese Bento – Engage with Colleagues Over Lunch

13:30 Evaluating Extracellular Vesicle Integrity and Composition to Inform Downstream Applications
Andreas Möller, Professor, Director, JC STEM Lab of Personalized Cancer Medicine, Li Ka Shing Institute of Health Sciences, Chinese University of Hong Kong

14:00 **Keynote Presentation**
Clinical Study of UC-MSC-Derived Extracellular Vesicles for Knee Osteoarthritis in Japan
Takahiro Ochiya, Distinguished Professor, Tokyo Medical University, Japan

14:30 **Technology Spotlight Presentation**
Particle Metrix Nanoparticle Tracking Analysis Platform for Studying EVs and LNPs
Sven Kreutel, CEO, Particle Metrix, Inc., United States of America and Germany



15:00 Mid-Afternoon Coffee and Tea Break and Networking

15:30 **Technology Spotlight Presentation**
Therapeutic Delivery with Recombinant Extracellular Vesicles
Christopher P. Locher, Founder and CEO, Versatope Therapeutics, Inc., United States of America



16:00 **Keynote Presentation**
HIV Tat-Activated Microglial Extracellular Vesicles Drive Neuronal Iron Dysregulation and Synaptodendritic Injury
Shilpa Buch, Professor and Senior Executive Vice Chair of Research, University of Nebraska Medical Center, United States of America

16:30 Dysregulated Autophagy Promotes Ferroptosis-Associated Cargo Loading into HIV Tat-Stimulated Microglial Extracellular Vesicles
Palsamy Periyasamy, Associate Professor, University of Nebraska Medical Center, United States of America

17:00 **Onsite Instrument Demonstration**
Onsite, Hands-On Demonstration and Deep Dive of the Particle Metrix Platform for NTA, fNTA and Nanoparticle Analysis
Sven Kreutel, CEO, Particle Metrix, Inc., United States of America and Germany



17:30 Japanese Beer Reception – Networking, Instrument Demonstration

18:30 Close of Day 1 of the Conference

Conference Day 2: Wednesday - October 14, 2026
Lipid Nanoparticles (LNPs)
Extracellular Vesicles (EVs)
AP-Japan 2026



08:30 Morning Coffee, Tea and Networking

09:00 High-Throughput Microfluidics and AI for Next-Generation LNP Development
Nan Zhang, Associate Professor, University College Dublin, Republic of Ireland

09:30 A Deep Dive into LNPs
Noah Malmstadt, Professor, Mork Family Dept. of Chemical Engineering & Materials Science, University of Southern California, United States of America

10:00 **Keynote Presentation**
Lipid Self-Assembly: From Nanostructure to Therapeutic Function
Nhiem Tran, Senior Lecturer and Deputy Head of Department of Applied Chemistry and Environmental Science, RMIT University, Australia

10:30 Mid-Morning Coffee and Tea Break and Networking

11:00 Development of a Cell-Free Virus-like Particle Production Method Using Microfluidic Devices
Masatoshi Maeki, Professor, Hokkaido University, Japan

11:30 Molecular Design of Functional Lipids for Macromolecular Delivery *in vivo*
Yusuke Sato, Associate Professor, Faculty of Pharmaceutical Sciences, Hokkaido University, Japan

12:00 PEG-free Lipid Nanoparticles for Targeted mRNA Delivery
*Yi Yan Yang, Distinguished Principal Scientist, Agency for Science, Technology and Research (A*STAR), Singapore*

12:30 Networking Lunch – Japanese Bento – Engage with Colleagues Over Lunch

- 13:30 LNP-based Therapeutic Strategies for Cardiometabolic Diseases
Jiong-Wei Wang, Assistant Professor, Yong Loo Lin School of Medicine, National University of Singapore
- 14:00 Development of MPS and its Application in Drug Discovery - Affinity with LNP Development
Yuzuru Ito, Professor, Institute of Life and Environmental Sciences, University of Tsukuba, Japan
- 14:30 Panel Discussion on LNPs Moderated by Professor Noah Malmstadt
- 15:00 **Keynote Presentation**
Understanding the Nanomaterial Interaction with Biomolecules, A Journey from Safety to Applications in Nanomedicine
Marco Monopoli, RCSI University of Medicine and Health Sciences, Ireland

15:30 Late-Afternoon Coffee and Tea Break and Networking in the Exhibit Foyer

Day 2 - Late Afternoon EV Session



- 16:00 Multifaceted Roles of Extracellular RNAs: From Cancer Biomarkers to Bacterial EV Function
Juntaro Matsuzaki, Professor, Division of Interdisciplinary Genetics and Nanomedicine, Research Center for Drug Discovery, Keio University Faculty of Pharmacy, Japan
- 16:30 Mapping Cancer Extracellular Vesicle Delivery Networks in Metastatic Tissue Microenvironments
Nao Nishida-Aoki, Associate Professor, Global Center for Science and Engineering, Faculty of Science and Engineering, Waseda University, Japan
- 17:00 From Mechanisms to Relevance: How Do We Determine When Extracellular Vesicles Matter Biologically?
Shannon Callen, Research Coordinator, University of Nebraska Medical Center, United States of America

17:30 Close of Conference

Conference Day 1: Tuesday - October 13, 2026
Space Summit AP-Japan 2026



- 08:00 Participants Check-In: Conference Registration, Conference Materials Pick-Up, Coffee, Tea and Networking
- 09:00 Chairperson's Welcome – Welcome and Introduction by Conference Chairperson
Kristin Kopperud, Aerospace Industry Professional, United States of America
- 09:30 Models and Outcomes of Public-Private Partnerships on the International Space Station National Lab
Michael Roberts, Chief Scientific Officer, International Space Station National Laboratory (CASIS), United States of America
- 10:00 Preventing Radiation- and Microgravity-Induced Injury: A Novel Countermeasure to Protect Bone
Melanie Coathup, Professor of Medicine/Lead, Biionix Cluster, University of Central Florida, The Stephen W. Hawking Center for Microgravity Research & Education, Florida Space Institute, United States of America

10:30 Mid-Morning Coffee and Tea Break and Networking

- 11:00 The Practical Application and Significance of Space-based Regenerative Medicine for On-Earth Regenerative Medicine
Louis Yuge, Founder, CTO Space Bio-Laboratories; Professor, E Hiroshima University, Japan
- 11:30 Novel Therapeutic Strategies to Sustain Bone Loss in Space: Lessons from Mission RR-25
Giuseppe Intini, Associate Professor, University of Pittsburgh, United States of America

12:00 Drug Screening Platform to Promote Muscle Regeneration Using Engineered Muscle-On-A-Chip Bioconstructs in Microgravity
Ngan F. Huang, Associate Professor, Stanford University, United States of America

12:30 Networking Lunch – Japanese Bento – Engage with Colleagues Over Lunch

13:30 Pt-TRAIL: Platinum Recovery from Asteroid Resources Using Deep Eutectic Solvents, from Extraction to Economic Viability
Volker Hessel, Professor, Adelaide University, Australia

14:00 From Lab to Factory: Enabling Biological Research and Manufacturing in Space
Tobias Niederwieser, Assistant Research Professor, BioServe Space Technologies, United States of America

14:30 Development of a Modular Multi-Stimulation Microfluidic Platform for Space Biomedical Research
Chia-Wen Tsao, Professor, Department of Mechanical Engineering, National Central University, Taiwan ROC

15:00 Mid-Afternoon Coffee and Tea Break and Networking

15:30 The Business of Space Medical Accelerator—Contributing to Advances in Medicine from Space
Masayuki Goto, Representative Director of Space Medical Accelerator, Japan

16:00 **Spotlight Presentation**

JAMSS Contributions to Research on the ISS and Commercial Space Stations
Kuniko Okada, General Manager, Sales and Business Management Department, Japan Manned Space Systems Corporation (JAMSS), Japan



16:30 Panel Discussion: Implementing Science in Space
Chaired by Kristin Kopperud, Aerospace Industry Professional, United States of America

****Panelists****

Tobias Niederweiser
Ngan Huang
Giuseppe Intini

17:30 Japanese Beer Reception – Networking and Continuation of Instrument Demonstration

18:30 Close of Day 1 of the Conference

Conference Day 2: Wednesday - October 14, 2026

Space Summit AP-Japan 2026

08:30 Morning Coffee, Tea and Networking

09:00 Introduction to Day 2 – Topics Covered and Themes Addressed
*Kristin Kopperud, Aerospace Industry Professional, United States of America --
Conference Chairperson*

09:15 **Keynote Presentation**
International Space Station: Building on 25 Years in Orbit and Igniting the Orbital Economy
Liz Warren, ISS Deputy Chief Scientist, NASA, United States of America

09:45 **Technology Spotlight Presentation**
In-Space Production of Protein-Based Artificial Retinas
*Kristin Kopperud, Program Manager, LambdaVision,
United States of America*



10:15 Mid-Morning Coffee and Tea Break and Networking

11:00 **Panel Discussion**
Panel Discussion Sponsored by Japan Manned Space Systems Corporation (JAMSS)



****Panel Chairperson****

Dr. Kristin Kopperud, Conference Chair

****Panelists****

Dr. Naohiro Sato, Chief Program Officer, Commercial LEO Business Domain,
JAMSS

Dr. Junpei Yamanaka, Professor Emeritus, Graduate School of Pharmaceutical
Sciences, Nagoya City University

Additional Panelists - To be Announced

12:00 Presentation Title to be Confirmed
Taketo Suzuki, Starlab/Mitsubishi, Japan

12:30 Networking Lunch – Japanese Bento – Engage with Colleagues Over Lunch

13:30 Networking Breakout Sessions



THE MATERIALS SCIENCE MANUFACTURER®

1 H 1.00794 Hydrogen	2 He 4.002602 Helium																
3 Li 6.941 Lithium	4 Be 9.012182 Beryllium	5 B 10.811 Boron	6 C 12.0107 Carbon	7 N 14.0067 Nitrogen	8 O 15.9994 Oxygen	9 F 18.998432 Fluorine	10 Ne 20.1797 Neon										
11 Na 22.98976928 Sodium	12 Mg 24.305 Magnesium	13 Al 26.9815386 Aluminum	14 Si 28.0855 Silicon	15 P 30.973762 Phosphorus	16 S 32.06 Sulfur	17 Cl 35.453 Chlorine	18 Ar 39.948 Argon										
19 K 39.0983 Potassium	20 Ca 40.078 Calcium	21 Sc 44.955912 Scandium	22 Ti 47.867 Titanium	23 V 50.9415 Vanadium	24 Cr 51.9961 Chromium	25 Mn 54.938045 Manganese	26 Fe 55.845 Iron	27 Co 58.933195 Cobalt	28 Ni 58.6934 Nickel	29 Cu 63.546 Copper	30 Zn 65.38 Zinc	31 Ga 69.723 Gallium	32 Ge 72.64 Germanium	33 As 74.9216 Arsenic	34 Se 78.96 Selenium	35 Br 79.904 Bromine	36 Kr 83.798 Krypton
37 Rb 85.4678 Rubidium	38 Sr 87.62 Strontium	39 Y 88.90585 Yttrium	40 Zr 91.224 Zirconium	41 Nb 92.90638 Niobium	42 Mo 95.96 Molybdenum	43 Tc (98.0) Technetium	44 Ru 101.07 Ruthenium	45 Rh 102.9055 Rhodium	46 Pd 106.42 Palladium	47 Ag 107.8682 Silver	48 Cd 112.411 Cadmium	49 In 114.818 Indium	50 Sn 118.71 Tin	51 Sb 121.76 Antimony	52 Te 127.6 Tellurium	53 I 126.90447 Iodine	54 Xe 131.293 Xenon
55 Cs 132.9054 Cesium	56 Ba 137.327 Barium	57 La 138.90547 Lanthanum	58 Ce 140.12 Cerium	59 Pr 140.90765 Praseodymium	60 Nd 144.242 Neodymium	61 Pm (145) Promethium	62 Sm 150.36 Samarium	63 Eu 151.964 Europium	64 Gd 157.25 Gadolinium	65 Tb 158.92535 Terbium	66 Dy 162.5 Dysprosium	67 Ho 164.93032 Holmium	68 Er 167.259 Erbium	69 Tm 168.93421 Thulium	70 Yb 173.054 Ytterbium	71 Lu 174.968 Lutetium	
87 Fr (223) Francium	88 Ra (226) Radium	89 Ac (227) Actinium	90 Th 232.0377 Thorium	91 Pa 231.03688 Protactinium	92 U 238.02891 Uranium	93 Np (237) Neptunium	94 Pu (244) Plutonium	95 Am (243) Americium	96 Cm (247) Curium	97 Bk (247) Berkelium	98 Cf (251) Californium	99 Es (252) Einsteinium	100 Fm (257) Fermium	101 Md (258) Mendelevium	102 No (259) Nobelium	103 Lr (262) Lawrencium	

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H
1.00794
Hydrogen

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He
4.002602
Helium

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Li
6.941
Lithium

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9.012182
Beryllium

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Boron

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C
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Carbon

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Nitrogen

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Oxygen

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Fluorine

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Neon

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Sodium

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Mg
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Magnesium

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Aluminum

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Silicon

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Phosphorus

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Sulfur

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Chlorine

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Ar
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Argon

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Potassium

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Calcium

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Scandium

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Chromium

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Manganese

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Iron

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Nickel

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Copper

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Gallium

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Ge
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Germanium

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As
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Arsenic

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Selenium

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Br
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Bromine

36
Kr
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Krypton

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Rb
85.4678
Rubidium

38
Sr
87.62
Strontium

39
Y
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Yttrium

40
Zr
91.224
Zirconium

41
Nb
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Niobium

42
Mo
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Molybdenum

43
Tc
(98.0)
Technetium

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Ru
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Ruthenium

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Rh
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Rhodium

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Pd
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Palladium

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Silver

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Cadmium

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Antimony

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Tellurium

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Iodine

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Xe
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Xenon

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Cs
132.9054
Cesium

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137.327
Barium

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138.90547
Lanthanum

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Ce
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Cerium

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Praseodymium

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Neodymium

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Promethium

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Sm
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Samarium

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Eu
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Europium

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Gadolinium

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Terbium

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Dy
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Dysprosium

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Holmium

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Er
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Erbium

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Tm
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Thulium

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Yb
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Ytterbium

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Rhenium

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Osmium

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Ir
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Iridium

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Platinum

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Gold

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Mercury

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Protactinium

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Einsteinium

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Mendelevium

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Hafnium

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Tantalum

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Tungsten

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Re
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Rhenium

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Os
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Osmium

77
Ir
192.217
Iridium

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Pt
195.084
Platinum

79
Au
196.96657
Gold

80
Hg
200.59
Mercury

81
Tl
204.3833
Thallium

82
Pb
207.2
Lead

83
Bi
208.9804
Bismuth

84
Po
(209)
Polonium

85
At
(210)
Astatine

86
Rn
(222)
Radon

87
Fr
(223)
Francium

88
Ra
(226)
Radium

89
Ac
(227)
Actinium

90
Th
232.0377
Thorium

91
Pa
231.03688
Protactinium

92
U
238.02891
Uranium

93
Np
(237)
Neptunium

94
Pu
(244)
Plutonium

95
Am
(243)
Americium

96
Cm
(247)
Curium

97
Bk
(247)
Berkelium

98
Cf
(251)
Californium

99
Es
(252)
Einsteinium

100
Fm
(257)
Fermium

101
Md
(258)
Mendelevium

102
No
(259)
Nobelium

103
Lr
(262)
Lawrencium

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