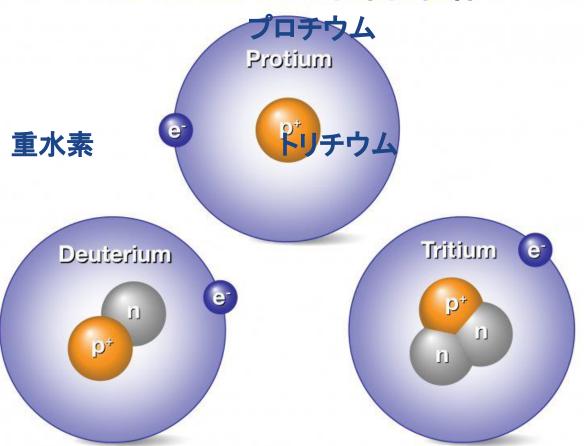
太平洋は放射性廃水の産業下水道ではない The Pacific Ocean Is Not a Radioactive Wastewater Industrial Sewer!

Kevin Kamps ケヴィン・キャンプス
Radioactive Waste Specialist 放射性廃棄物スペシャリスト
Beyond Nuclear ビヨンド・ニュークリア
Kobe, Japan, August 27, 2023 8月27日神戸にて





ISOTOPES OF H米森间位中



ロザリー・バーテル博士、国際公衆衛生研究所 **Dr. Rosalie Bertell**, Int'l Institute of Concern for Public Health



ホツ



MARY-LOUISE ENGELS



すごい女性たち WOMEN WHO ROCK

BERTELL

Scientist, Eco-Feminist, Visionary

ケイ・ドレイ、ビョンドニュークリア名誉会長 Kay Drey, Board President Emerita, Beyond Nuclear



Kay Drey - St. Louis, MO

米国の原子力発電所から日常的に放出される放射性物質

ROUTINE RADIOACTIVE RELEASES FROM U.S. NUCLEAR POWER PLANTS



TA DIAGRAM PUBLISHED IN 1977 BY THE U.S. NUCLEAR REGULATORY COMMISSION

- 1. Arkansas One 1 & 2 (AR)
 Dardanelle Reservoir, Arkansas River
- 2. Beaver Valley 1 & 2 (PA) Ohio River
- 3. Braidwood 1 & 2 (IL) Braidwood Lake, Kankakee River
- 4. Browns Ferry 1, 2 & 3 (AL) Tennessee River
- 5. Brunswick 1 & 2 (NC) Cape Fear River, Atlantic Ocean
- 6. Byron 1 & 2 (IL) Rock River
- 7. Callaway (MO) Missouri River
- 8. Calvert Cliffs 1 & 2 (MD) Chesapeake Bay
- 9. Catawba 1 & 2 (SC) Lake Wylie, Catawba River
- 10. Clinton (IL) Clinton Lake, Salt Creek
- 11. Columbia (WA) Columbia River
- 12. Comanche Peak 1 & 2 (TX) Squaw Creek Reservoir, Brazos River
- 13. Donald C. Cook 1 & 2 (MI) Lake Michigan
- 14. Cooper (NE) Missouri River
- 15. Davis-Besse (OH) Lake Frie
- 16. Diablo Canyon 1 & 2 (CA) Pacific Ocean
- 17. Dresden 2 & 3 (IL) Kankakee River

- 18. Duane Arnold (IA) Cedar River
- 19. Joseph M. Farley 1 & 2 (AL) Chatahoochee River
- 20. Fermi 2 (MI) Lake Erie
- 21. James A. FitzPatrick (NY) Lake Ontario
- 22. Fort Calhoun (NE) Missouri River
- 23. R. E. Ginna (NY) Lake Ontario
- 24. Grand Gulf (MS) Mississippi River
- 25. Edwin I. Hatch 1 & 2 (GA) Altamaha River
- 26. Hope Creek (NJ) Delaware River
- 27. Indian Point 2 & 3 (NY) Hudson River
- 28. LaSalle 1 & 2 (IL) LaSalle Lake, Illinois River
- 29. Limerick 1 & 2 (PA) Schuvlkill River
- 30. McGuire 1 & 2 (NC) Lake Norman, Catawba River
- 31. Millstone 2 & 3 (CT) Niantic Bay of Long Island Sound
- 32. Monticello (MN) Mississippi River
- 33. Nine Mile Point 1 & 2 (NY) Lake Ontario
- 34. North Anna 1 & 2 (VA) Lake Anna, North Anna River, Pamunkey River, York River, Chesapeake Bay

- Nebraska (NE) Uten (ut) Missouri (MO) Colorado (CO) California (CA) Kansas Oklahoma (OK) New Mexico Atlantic Ocean **COOLING WATER INTAKE AND** WASTE WATER DISCHARGE SITES OF THE **NUCLEAR POWER PLANTS** Gulf of Mexico IN THE UNITED STATES
- 35. Oconee 1, 2 & 3 (SC) Lake Keowee, Savannah River
- 36. Oyster Creek (NJ) Bamegat Bay of Atlantic Ocean
- 37. Palisades (MI) Lake Michigan
- 38. Palo Verde 1, 2 & 3 (AZ)

Groundwater plus Phoenix sewage water from 35 miles away provide the cooling water. Waste water is evaporated; saturated sludges are shipped to a radioactive waste dump.

- 39. Peach Bottom 2 & 3 (PA) Conowingo Pond, Susquehanna River, Chesapeake Bay
- 40. Perry (OH) Lake Erie
- 41. Pilarim (MA) Cape Cod Bay of Atlantic Ocean
- 42. Point Beach 1 & 2 (WI) Lake Michigan
- 43. Prairie Island 1 & 2 (MN) Mississippi River

- 44. Quad Cities 1 & 2 (IL) Mississippi River
- 45. River Bend (LA) Mississippi River
- 46. H. B. Robinson 2 (SC) Lake Robinson, Black Creek
- 47. Saint Lucie 1 & 2 (FL) Atlantic Ocean
- 48. Salem 1 & 2 (NJ) Delaware River

- 49. Seabrook (NH) Atlantic Ocean
- 50. Sequoyah 1 & 2 (TN) Chickamauga Lake. Tennessee River
- 51. Shearon Harris (NC) Harris Lake, Buckhorn Creek, Cape Fear River
- 52. South Texas Project 1 & 2 (TX) Colorado River, Gulf of Mexico
- 53. V. C. Summer (SC) Monticello Reservoir, Broad River
- 54. Surry 1 & 2 (VA) James River, Chesapeake Bay
- 55. Susquehanna 1 & 2 (PA) Susquehanna River. Chesapeake Bay
- 56. Three Mile Island (PA) Susquehanna River. Chesapeake Bay
- 57. Turkey Point 3 & 4 (FL) Biscayne Bay of Atlantic Ocean
- 58. Voatle 1 & 2 (GA) Savannah River
- 59. Waterford 3 (LA) Mississippi River
- 60. Watts Bar 1 & 2* (TN) Watts Bar Lake, Tennessee River *Unit #2 is expected to begin operating in 2016.
- 61. Wolf Creek (KS) Coffey County Lake. Neosho River

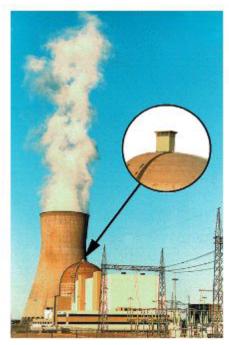
REACTORS ROUTINELY RELEASE RADIOACTIVE WASTES INTO THE WATER AND INTO THE AIR !!

REACTORS ARE CLOSING

For an update, go to: http://www.beyondnuclear.org/reactors-are-closing/

PLANNED RELEASES from Nuclear Plants into Air, Water, and Soil

NOT
TAKE AN
ACCIDENT

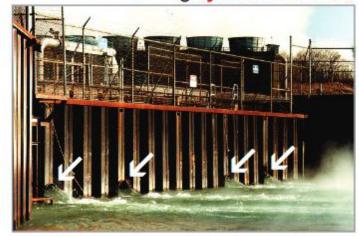


大気、水、土壌への計画放出

例:原子炉からのベント 河川・湖・海への放出

The **vent** on top of the Reactor Building at the Callaway 1000-megawatt pressurized water reactor.

Water discharge area at the Palisades nuclear power plant on Lake Michigan. Note the flow from four big ejection outlets.

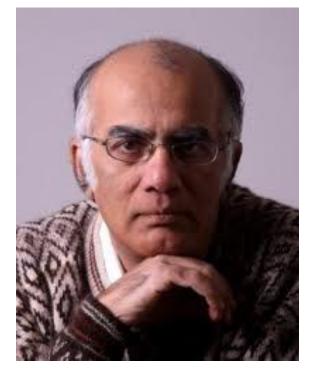


シンディ・フォルカーズ ビヨンド・ニュークリア、放射線衛生スペシャリスト

Cindy Folkers, Radiation Health Specialist, Beyond Nuclear

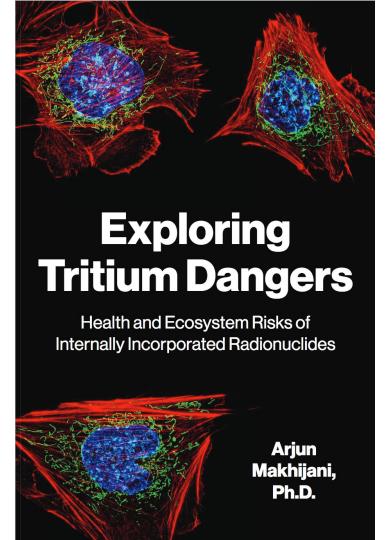


アルジュン・マキジャニ博士 エネルギー・環境研究所所長



Dr. Arjun Makhijani,
President,
Institute for Energy and Environmental Research

トリチウムの危険性を探る」



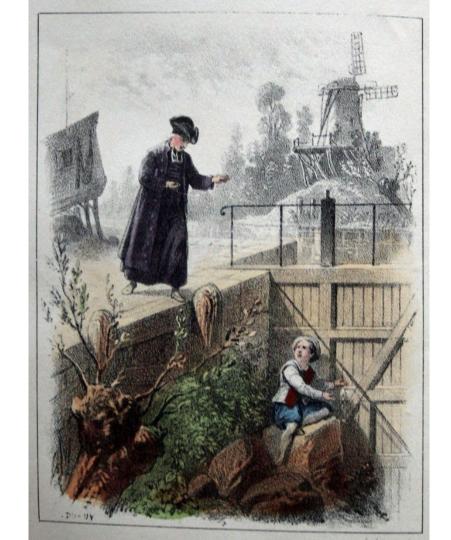
アルジュン・マキジャニ

Little

Dutch

Boy

堤防の決壊を防いだ オランダの少年



福島原発事故後の日本での反原発デモ

Post-Fukushima catastrophe anti-nuke protests in Japan





電離放射線

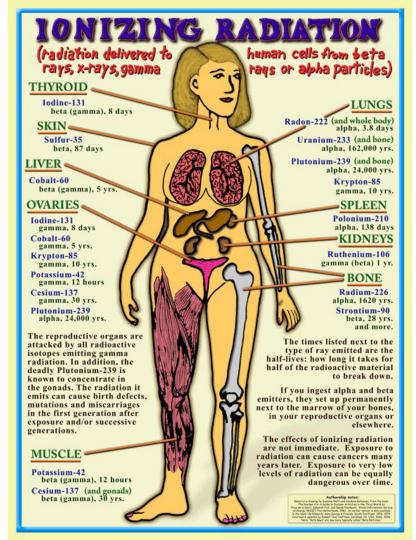
甲状腺

皮膚

肝臓

卵巣

筋肉



肺

脾臓 腎臓

骨

国際海事機関



Pollution Prevention

Response

Biofouling

Ship Recycling

MARPOL

Areas

Pollution Preparedness and

Ballast Water Management

Anti-fouling systems

Port Reception facilities

Particularly Sensitive Sea

Special Areas under

Contact us | Careers

OUR WORK V

PUBLICATIONS

English Français

KNOWLEDGE CENTRE V

Español

IMO WEB ACCOUNTS

Q

of Marine Pollution

MEDIA CENTRE V

廃棄物その他の物の投棄による海洋汚染の防止に関す る条約(1972年)」、略して「ロンドン条約」は、人間活動 から海洋環境を保護するための最初の世界条約のひと つで、1975年から発効している。その目的は、あらゆる 海洋汚染源の効果的な制御を促進し、廃棄物その他の 物質の投棄による海洋汚染を防止するため、実行可能 なあらゆる措置を講じることである。現在、87カ国がこの 条約の締約国である。(訳者註:日本語訳は、元の英語 に貼り付け)

- > Full text of the London Convention

Full text of the London

Protocol and 1996 amendments

- > Map of current LC-LP Parties (April 2022)
- Information leaflet about London Convention and Protocol
- > London Protocol 20 years - what it is and why it is needed
- > Strategic Plan for the London Protocol and **London Convention**
- Benefits of implementing the London Protocol

of Wastes and Other Matter

ABOUT IMO V

London Convention and Protocol

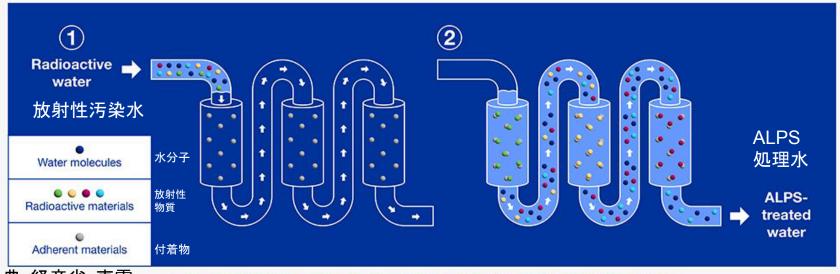
Compliance with the London Convention and Protocol

50 years of the London Convention

In 2022, IMO is marking fifty years since the adoption of the London Convention.







出典:経産省•東電



La Hague, France 仏 ラ・アーグ



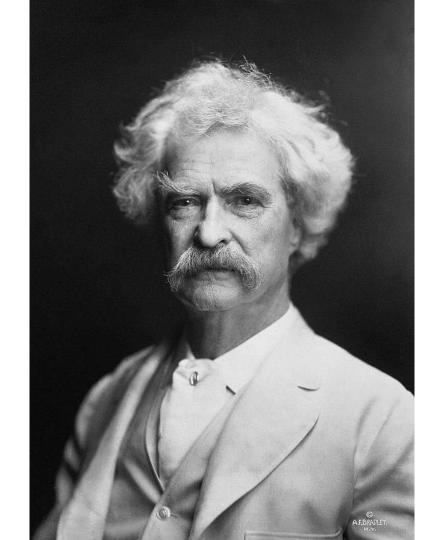
(c) Greenpeace/Gleises

Sellafield, United Kingdom 英 セラフィールド



Mark Twain

マーク・トウェイン

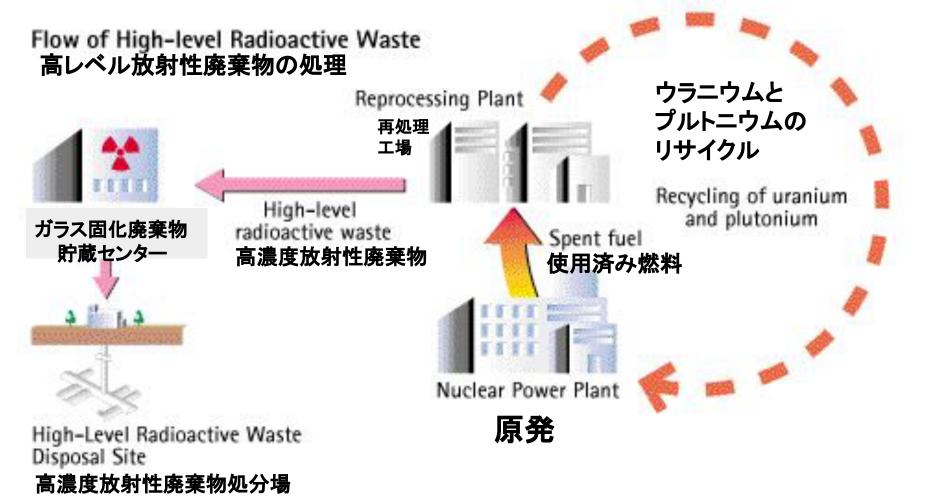


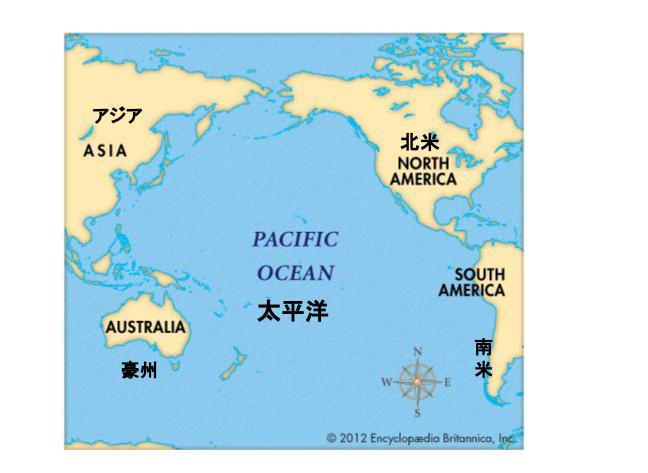
ワシントン大学 医学部 ミズーリ州 セントルイス

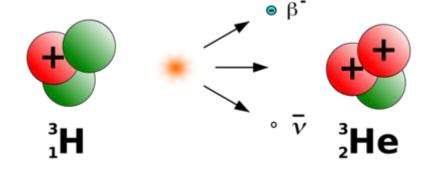
Washington University Medical Campus, St. Louis, MO



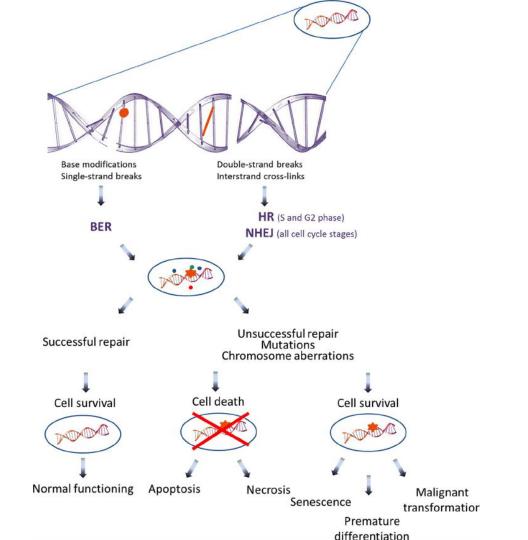






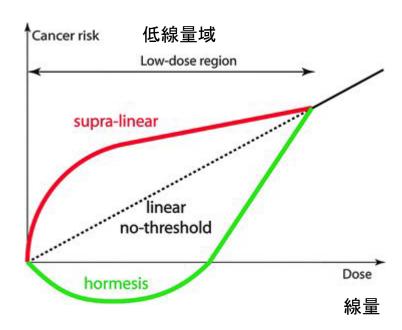




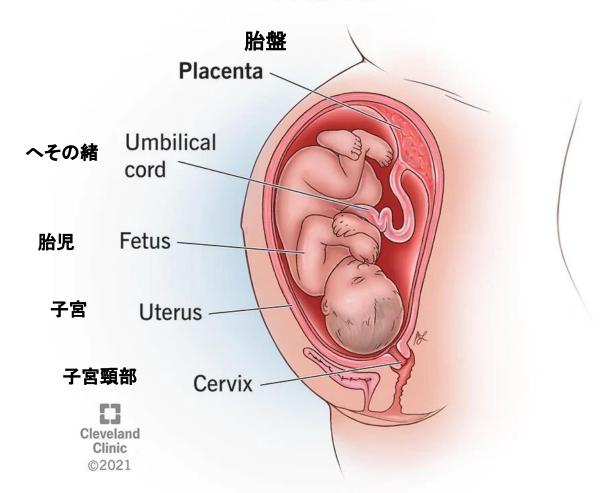


Linear no-threshold model

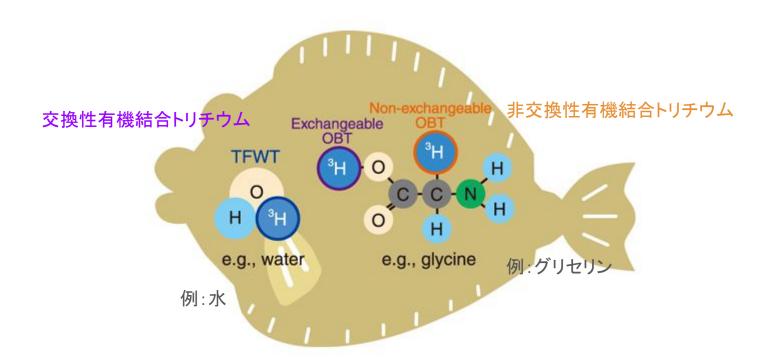
発癌リスク



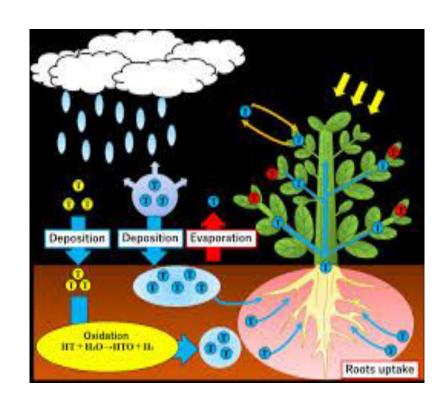
Placenta

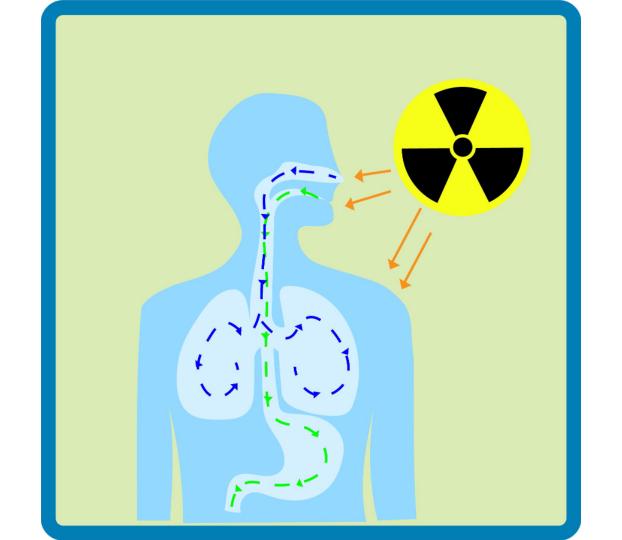


Organically Bound Tritium 有機結合トリチウム

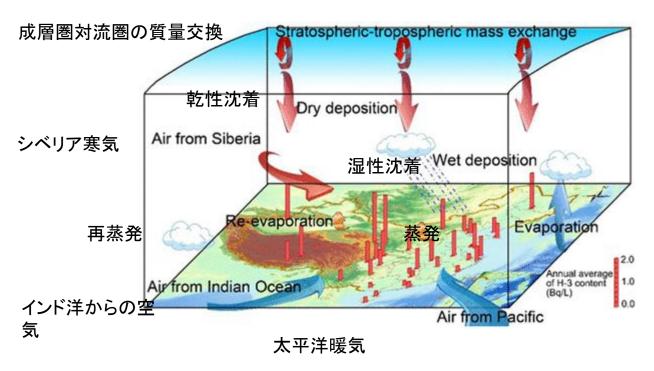


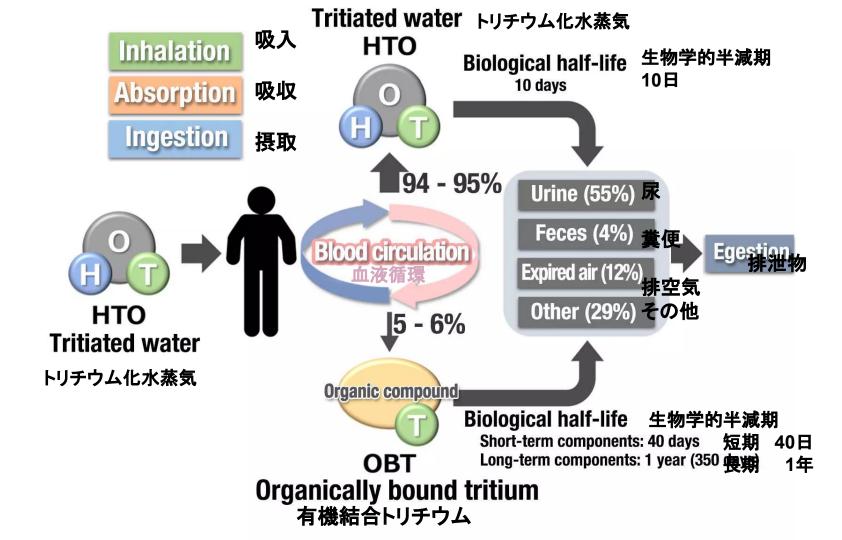
Organically Bound Tritium 有機結合トリチウム





Tritiated Water Vapor トリチウム化水蒸気





「トリチウムの 危険性の探求」

from

マキジャニ

"Exploring Tritium Dangers"

By Makhijani

【動物細胞の模式図】

1核小体 2核 3 リポゾーム

4 小胞 5 粗面小胞体

6ゴルジ体 7 細胞骨格

8平滑小胞体 9 ミトコンドリオン

10 液胞 11細胞質 12 リソソーム

13 中心小体 14 細胞膜

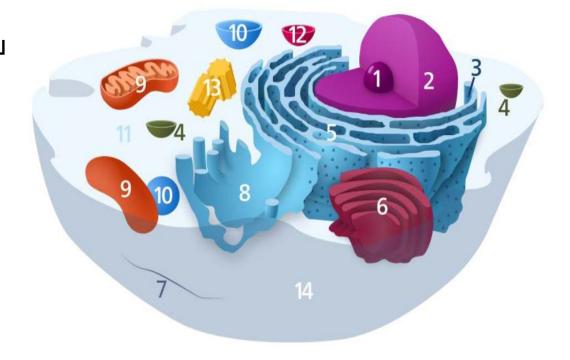


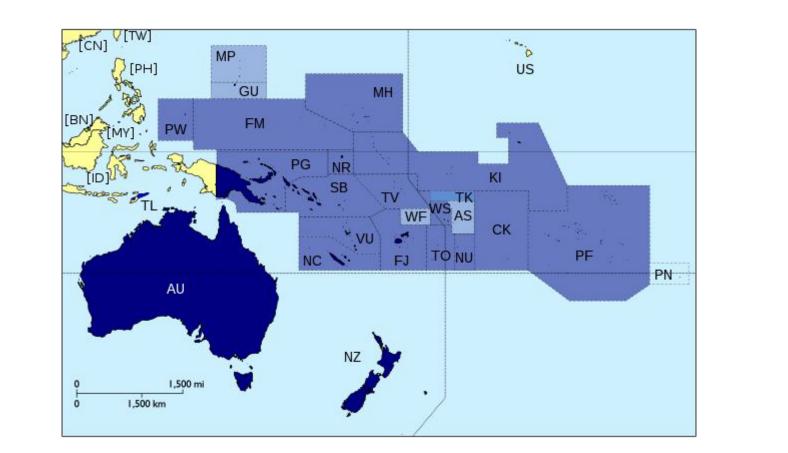
Figure V-1. Schematic of an animal cell. 1. Nucleolus; 2. Nucleus; 3. Ribosomes; 4. Vesicle; 5. Rough endoplasmic reticulum; 6. Golgi apparatus; 7. Cytoskeleton; 8. Smooth endoplasmic reticulum; 9. Mitochondrion; 10. Vacuole; 11. Cytosol; 12. Lysosome; 13. Centriole; 14. Cell membrane.

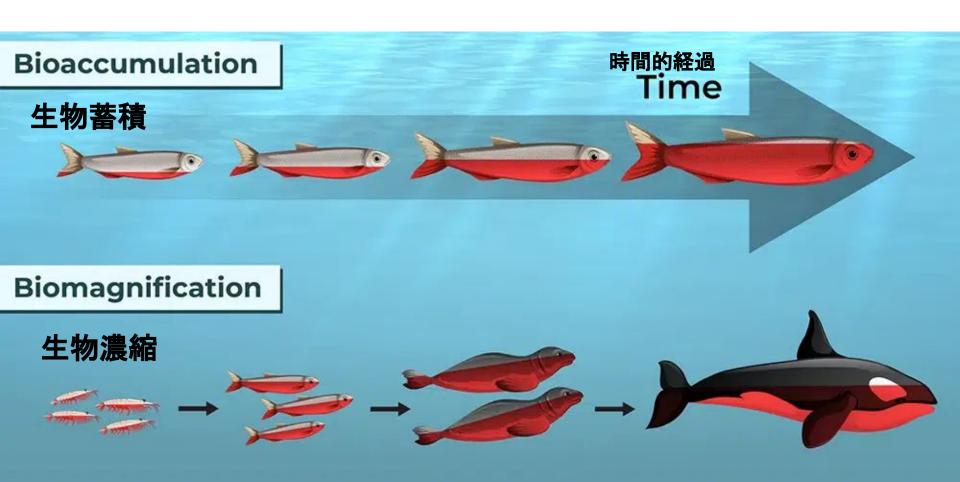
Source: Wikimedia commons at https://commons.wikimedia.org/wiki/File:Animal Cell.svg

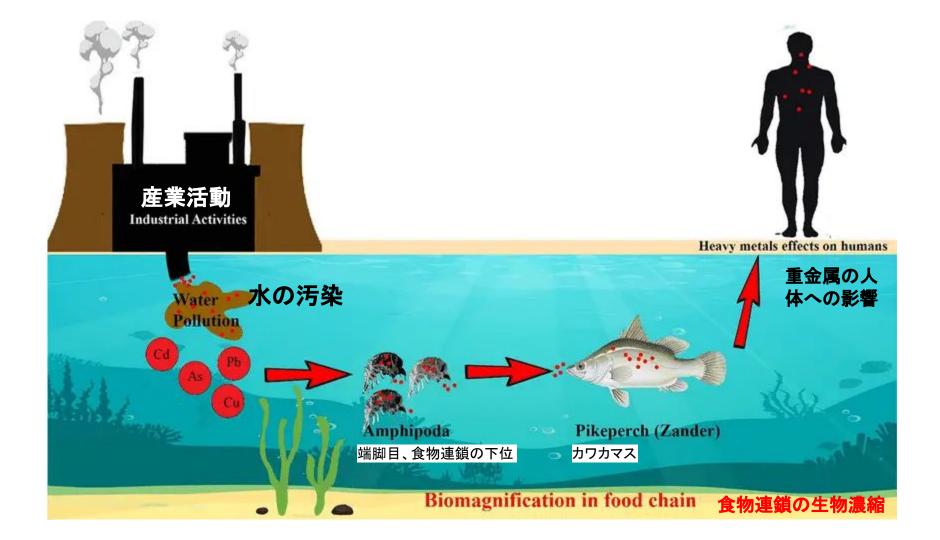
太平洋諸島フォーラム(PIF)

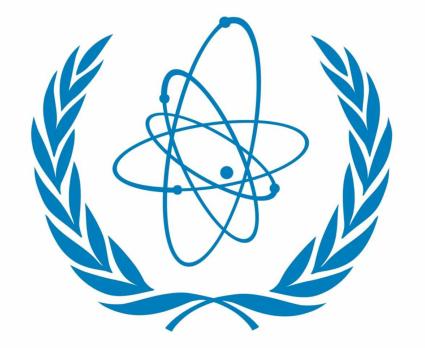


PACIFIC ISLANDS FORUM









A E A 国際原子力機関

International Atomic Energy Agency



