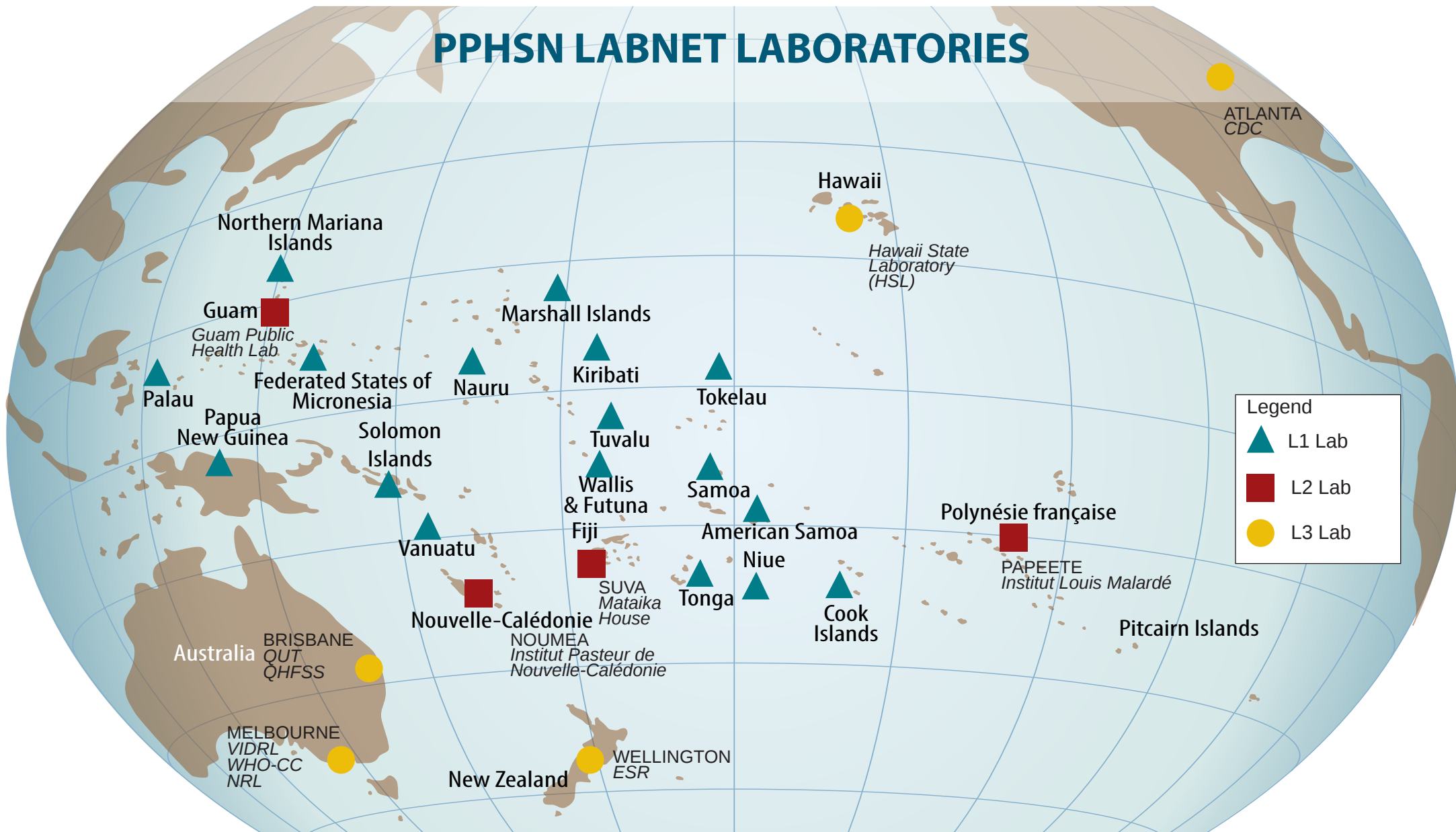


PPHSN LABNET LABORATORIES



Legend

- L1 Lab
- L2 Lab
- L3 Lab

QUT: WHO Arbovirus Reference Centre; QHFSS: Queensland Forensic Scientific Services; VIDRL: Victoria Infectious Diseases Reference Laboratory; WHO-CC: WHO-Collaborating Center for Influenza; NRL: National Serology Reference Laboratory; ESR: Institute of Environmental Science and Research.



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LabNet Structure

LabNet is a three-level network of public health laboratories: L1, L2 and L3, where “level” refers primarily to the role of the laboratory in the network and not to its capacity.

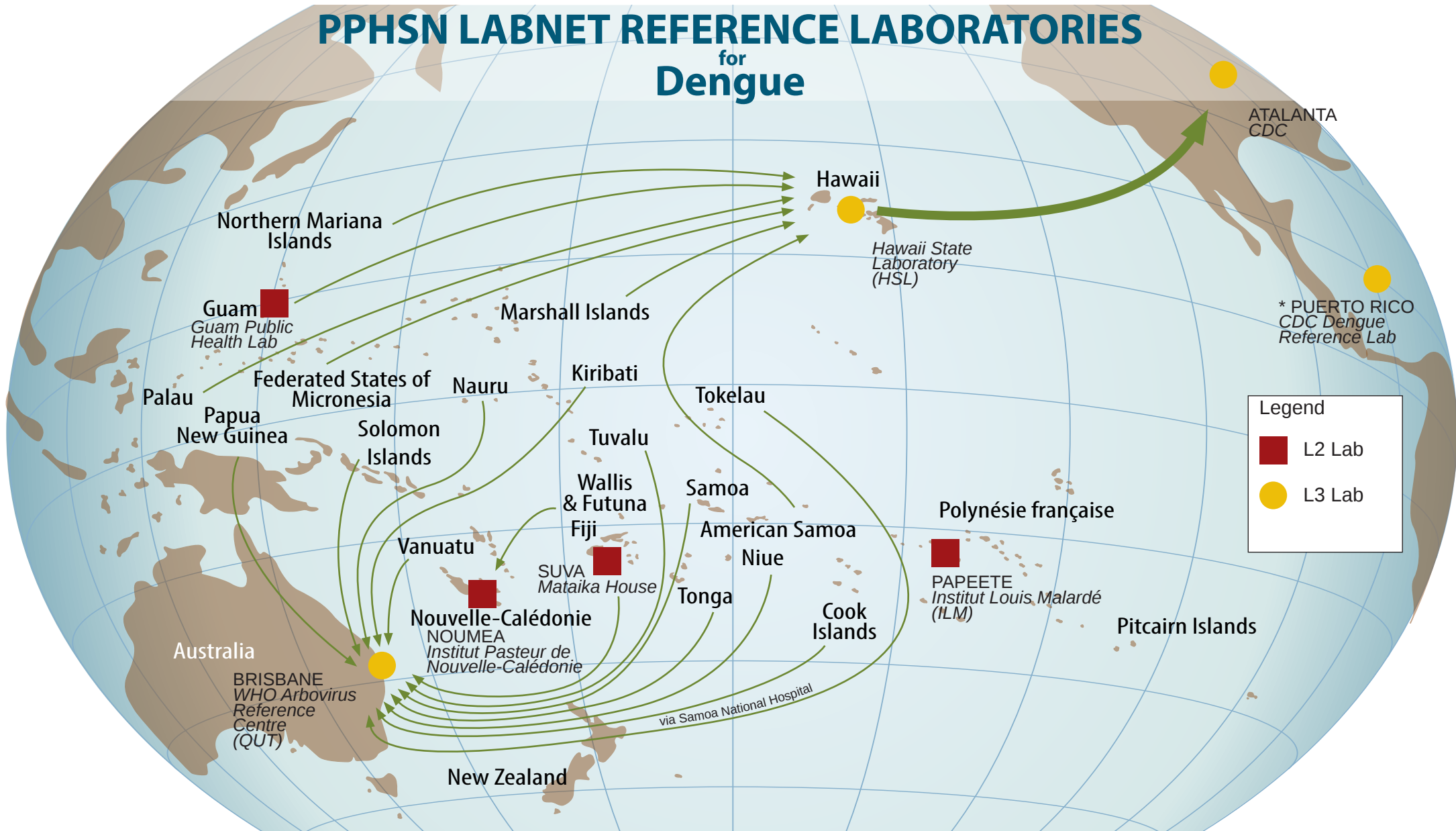
- ▲ • **L1 labs** are the laboratories of the PPHSN member countries and territories. This level is the closest to patients and clinicians facing an outbreak alert. L1 labs collect samples from suspect patients and when possible use screening tests. They should have ready access to L2 or L3 lab confirmation services for selected diseases.
- • **L2 labs** are regional reference labs that perform the first level of confirmation tests for L1 labs. The techniques they run require more training and equipment than those used at L1 labs. They are further supported by L3 labs. L2 regional labs are also L1 labs in their country or territory.
- • **L3 labs** are reference laboratories. They are usually internationally recognised labs located in the Pacific Rim countries (mainly Australia, New Zealand and USA). In addition to the L2 disease-specific role, they perform more sophisticated, less urgently needed tests, giving important epidemiological information for the region or in the context of the worldwide surveillance of major diseases (such as dengue virus genotyping, influenza subtyping or *Leptospira* serogrouping).

Structure de LabNet

LabNet est un réseau de laboratoires de santé publique de trois niveaux : le niveau 1, le niveau 2 et le niveau 3, chaque niveau se référant au rôle du laboratoire au sein du réseau et non à ses capacités.

- ▲ • Les laboratoires de niveau 1 sont les laboratoires dont disposent les États et territoires membres du ROSSP. Ils sont les plus proches des malades et des cliniciens devant faire face à l'apparition d'une épidémie. Les laboratoires de niveau 1 prélèvent des spécimens sur des malades présumés et, si possible, effectuent des tests de dépistage. Ils devraient avoir facilement accès aux services de confirmation de laboratoires de niveau 2 ou 3 pour certaines maladies.
- • Les laboratoires régionaux de référence de niveau 2 effectuent les tests de confirmation de premier niveau pour les laboratoires de niveau 1. Les techniques auxquelles ils font appel exigent davantage de compétences et d'équipements que ceux employés par les laboratoires de niveau 1. Ils peuvent ensuite recevoir l'appui des laboratoires de niveau 3. Ce sont des laboratoires de niveau 1 dans leur État ou territoire.
- • Les laboratoires de niveau 3 sont des laboratoires de référence. Ce sont, en général, des laboratoires reconnus à l'échelon international, situés dans des pays du bassin du Pacifique (essentiellement l'Australie, la Nouvelle-Zélande et les États-Unis d'Amérique). Outre les fonctions attribuées aux laboratoires de niveau 2 pour certaines maladies, ils effectuent des tests plus complexes ayant un moindre caractère d'urgence, et donnent des informations épidémiologiques importantes pour la région ou intéressant la surveillance à l'échelle du monde entier de maladies répandues (telles que le génotypage du virus de la dengue, le sous-typage de la grippe ou la détermination du sérotype des leptospires).

PPHSN LABNET REFERENCE LABORATORIES for Dengue



RECOMMENDED TESTS FOR DENGUE

Screening tests (L1 Laboratory)

- NS1 Ag Rapid strips
- NS1 Ag ELIZA
- NS1 Combo NS1 / IgG & IgM
- PanBio Antibody test

Conformation tests (L2 or L3 laboratory)

- PCR & Typing

Further characterization (L3 Laboratory)

- Genotyping

United States Associated Pacific Islands (USAPI) send samples to HSL (Hawaii) or CDC-Reference Lab (Puerto Rico); All dry blood samples are sent to Institut Louis Malardé.

* Indicates a commercial or government laboratory, not in the original PPHSN LabNet list. These laboratories have been contracted by the country or jurisdiction and it is important to include them on the map for a complete understanding of all testing provisions available in the region.



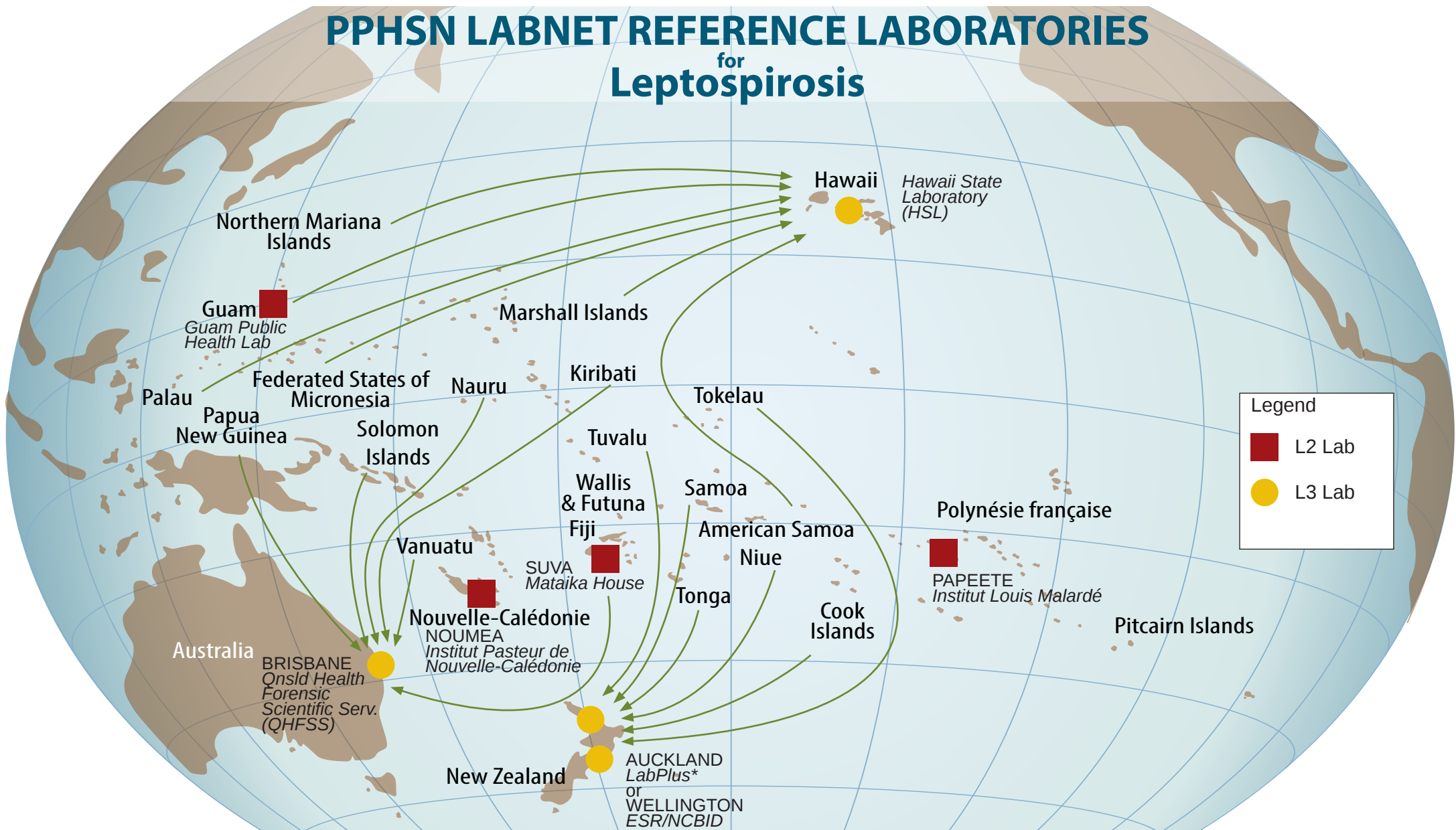
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PPHSN LABNET REFERENCE LABORATORIES for Leptospirosis



RECOMMENDED TESTS FOR LEPTOSPIROSIS

Screening tests (L1 Laboratory)

- PanBio Antibody test
- ELIZA IGM

Conformation tests (L2 or L3 laboratory)

- ELIZA IGM

Further characterization (L3 Laboratory)

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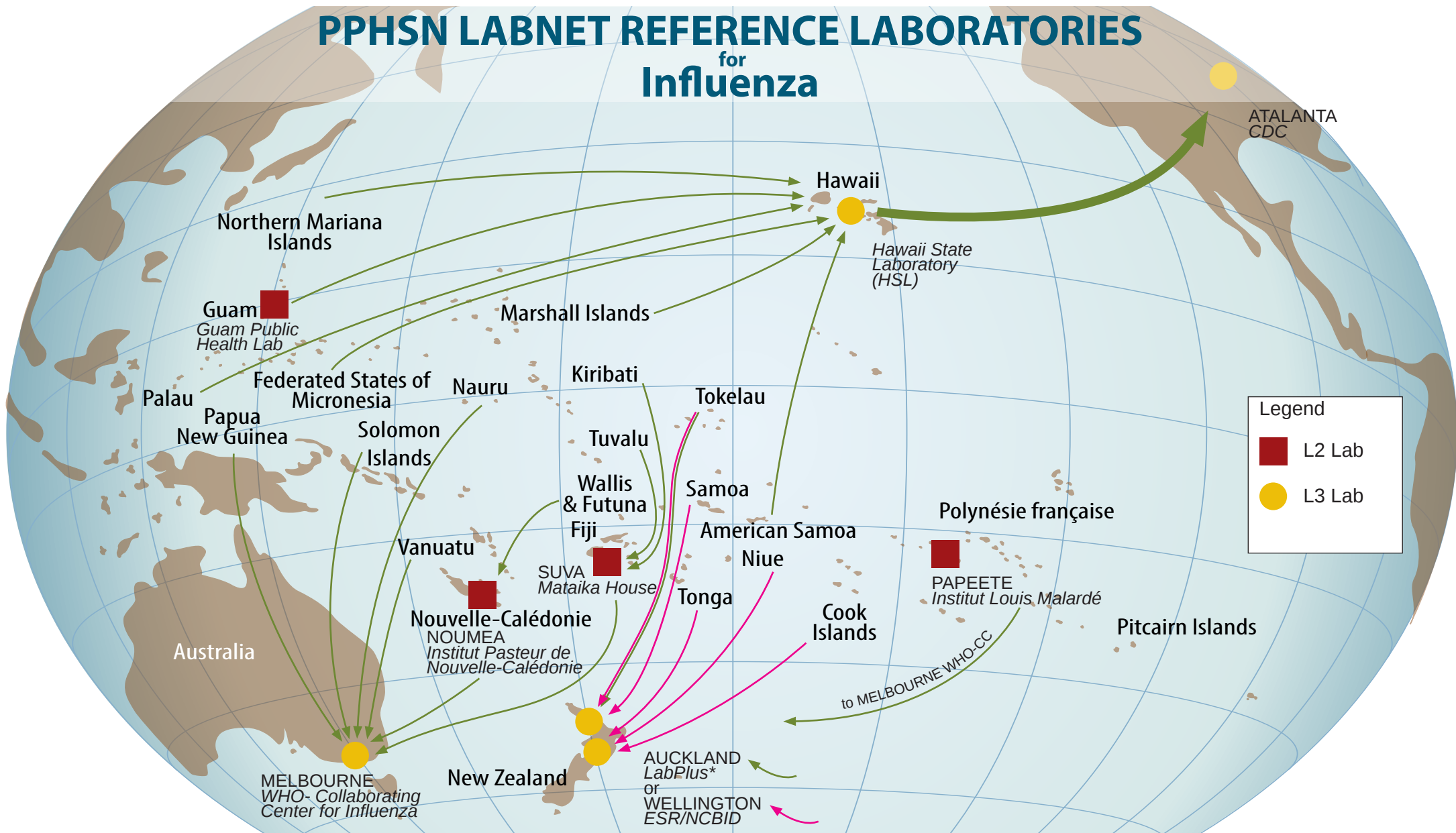
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PPHSN LABNET REFERENCE LABORATORIES for Influenza



RECOMMENDED TESTS FOR INFLUENZA

Screening tests (L1 Laboratory)

- Immunofluorescent microscopy
- Rapid Test kits

Conformation tests (L2 or L3 laboratory)

- PCR & Sequencing

Further characterization (L3 Laboratory)

- Viral culture
- Genotyping

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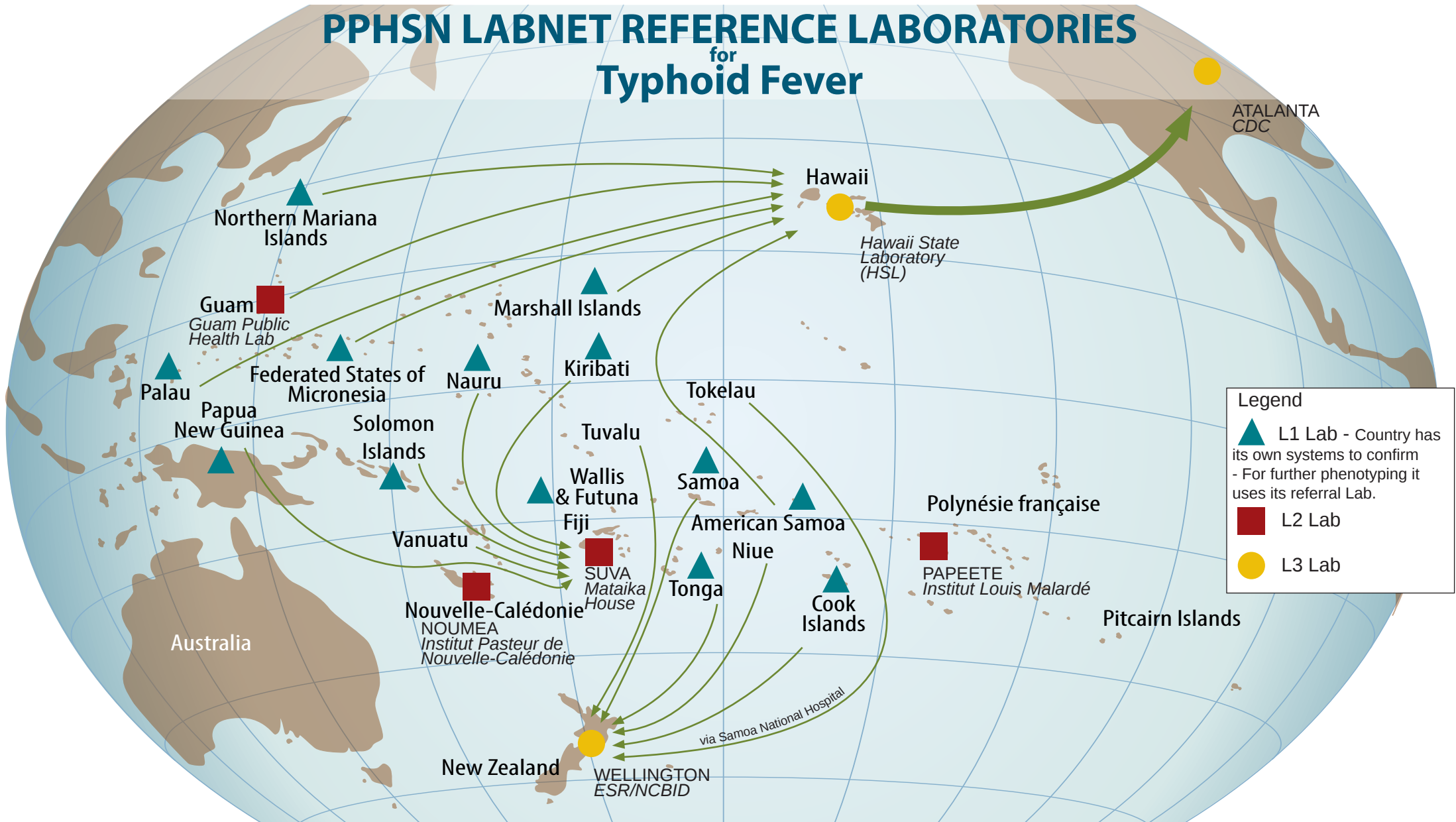
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PPHSN LABNET REFERENCE LABORATORIES for Typhoid Fever



Legend

- ▲ L1 Lab - Country has its own systems to confirm - For further phenotyping it uses its referral Lab.
- L2 Lab
- L3 Lab

RECOMMENDED TESTS FOR TYPHOID FEVER

Screening tests (L1 Laboratory)

- Bacterial culture isolates
- Biochemical identification
- Serotyping confirmation

Conformation tests (L2 or L3 laboratory)

Further characterization (L3 Laboratory)

- PHAGE Typing

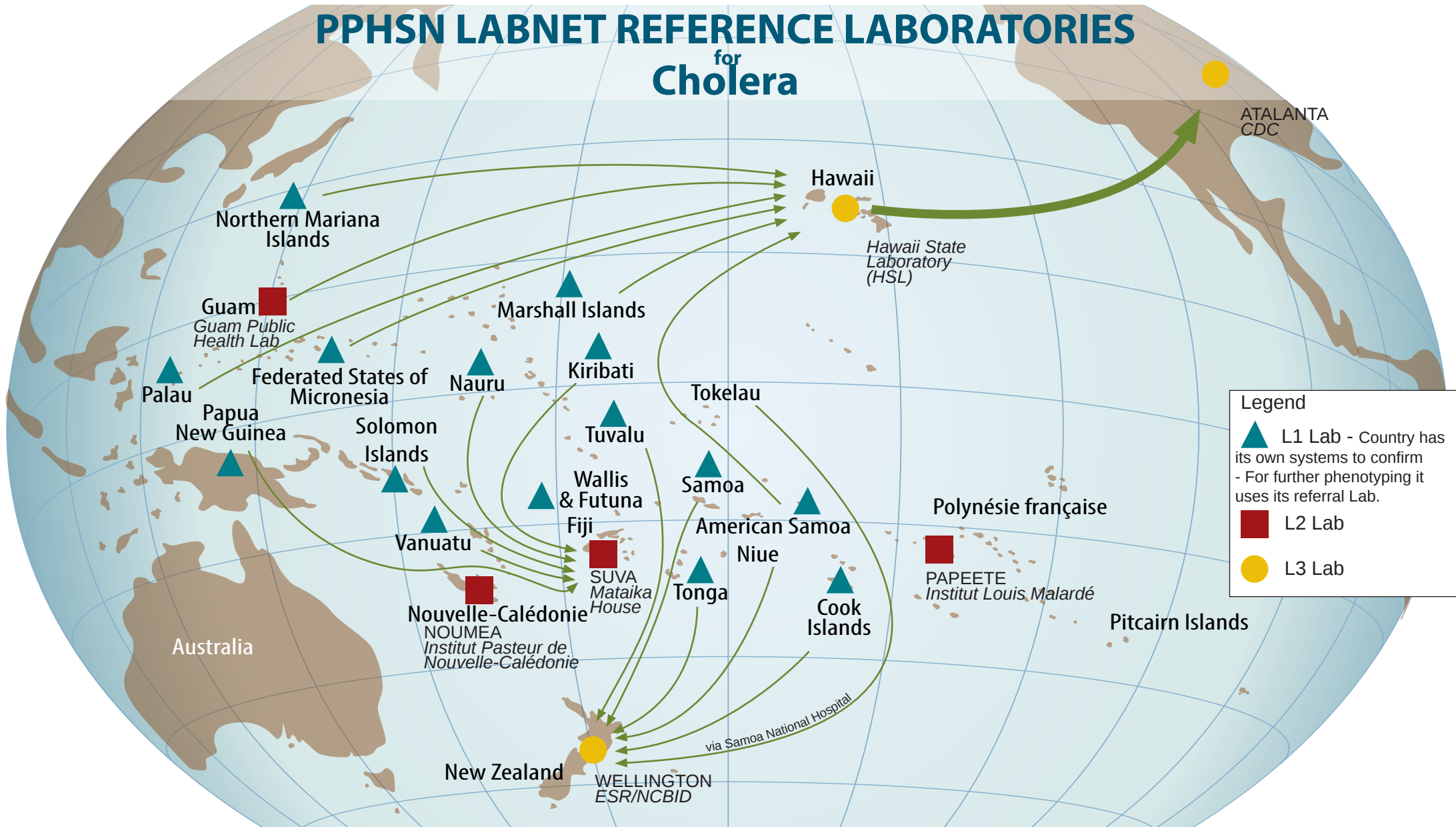


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PPHSN LABNET REFERENCE LABORATORIES for Cholera



Legend

- ▲ L1 Lab - Country has its own systems to confirm - For further phenotyping it uses its referral Lab.
- L2 Lab
- L3 Lab

RECOMMENDED TESTS FOR CHOLERA

Screening tests (L1 Laboratory)	Conformation tests (L2 or L3 laboratory)	Further characterization (L3 Laboratory)
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- Bacterial culture isolates
- Biochemical identification
- Serotyping confirmation



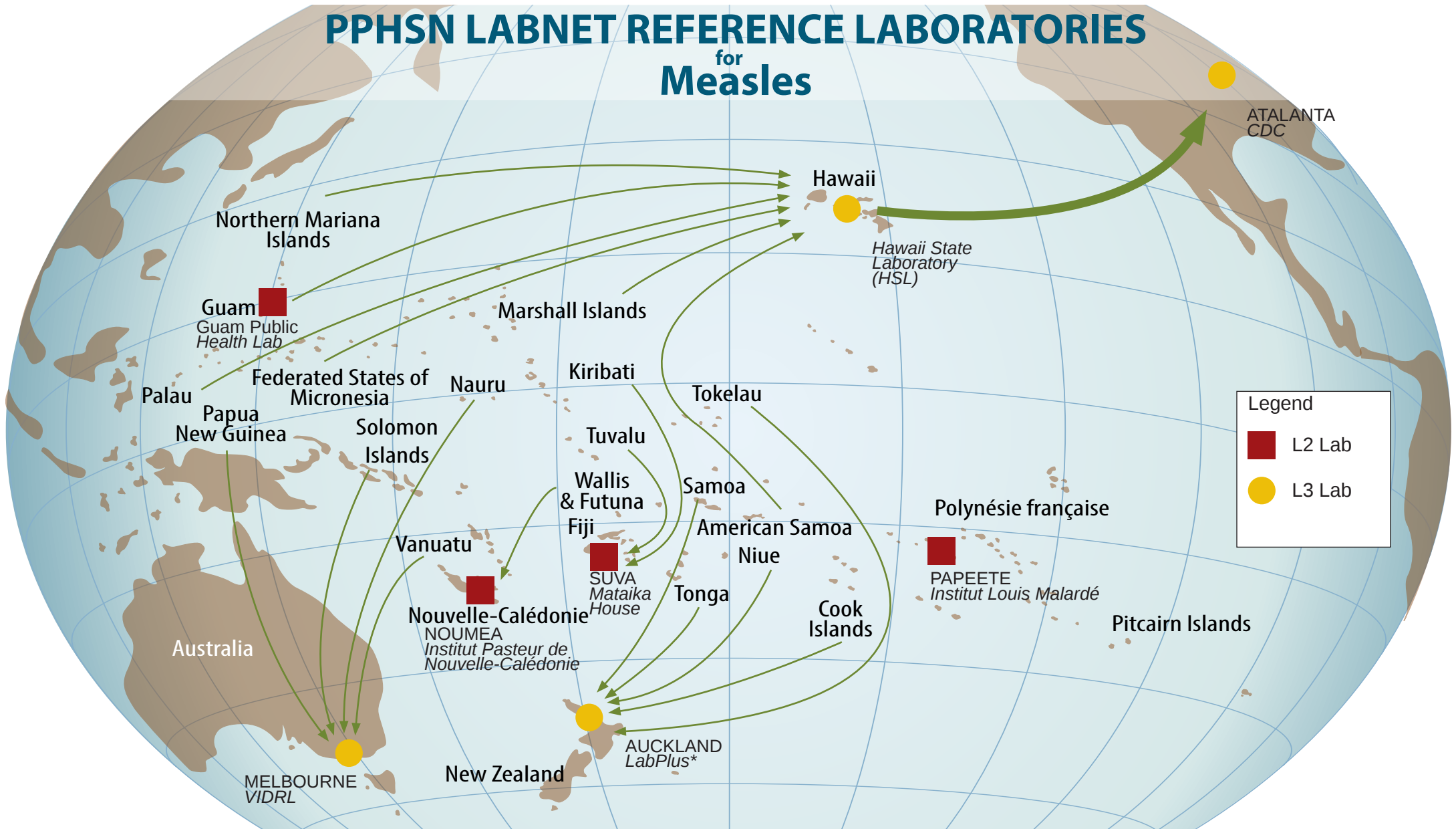
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PPHSN LABNET REFERENCE LABORATORIES for Measles



Legend

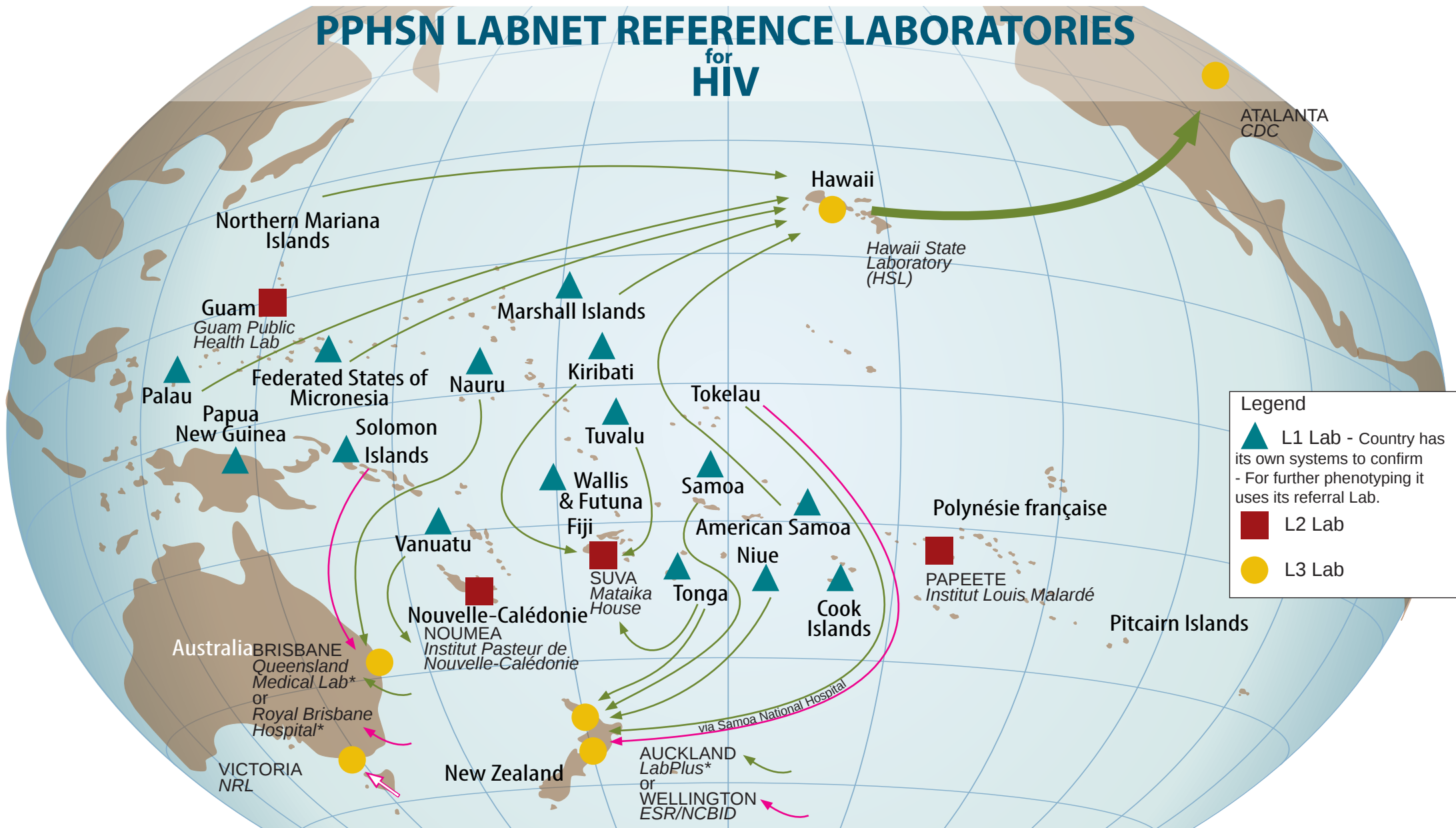
- L2 Lab
- L3 Lab

RECOMMENDED TESTS FOR MEASLES

Screening tests (L1 Laboratory)	Conformation tests (L2 or L3 laboratory)	Further characterization (L3 Laboratory)
● none	● ELIZA	

* Indicates a commercial or government laboratory, not in the original PPHSN LabNet list. These laboratories have been contracted by the country or jurisdiction and it is important to include them in the catalog for a complete understanding of all testing provisions available in the region.

PPHSN LABNET REFERENCE LABORATORIES for HIV



Legend

- ▲ L1 Lab - Country has its own systems to confirm - For further phenotyping it uses its referral Lab.
- L2 Lab
- L3 Lab

RECOMMENDED TESTS FOR HIV

Screening tests (L1 Laboratory)	Conformation tests (L2 or L3 laboratory)	Further characterization (L3 Laboratory)
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- Determine (screen)

* Indicates a commercial or government laboratory, not in the original PPHSN LabNet list. These laboratories have been contracted by the country or jurisdiction and it is important to include them in the catalog for a complete understanding of all testing provisions available in the region.

↗ All PICTs utilise the National Serology Reference Laboratory for HIV testing validation.