

## Draft template for biennial activity report from JCTLM Member organizations

All JCTLM Members are invited to attend the Members' and Stakeholders' Meeting, which is held once every two years, and submit a report of their activities in support of traceability in laboratory medicine over the preceding period.

For that purpose this template document provides guidance to JCTLM Members for drafting their biennial activity report. Organizations are invited to provide the information below for submission to the Executive Committee.

**Organization:** NMIJ/AIST

**JCTLM Member status:** National and Regional Member

**Author(s):** T. Fujimoto & A. Takatsu

**Author(s) email(s):** [t.fujimoto@aist.go.jp](mailto:t.fujimoto@aist.go.jp), [akiko-takatsu@aist.go.jp](mailto:akiko-takatsu@aist.go.jp)

**Period covered:** 2015 – 2017

### 1. Major achievement(s) in support of standardization in laboratory medicine

NMIJ/AIST has produced following CRMs.

New CRMs

NMIJ CRM 6202-a Human Serum Albumin (JCTLM DB listed)

NMIJ CRM 6209-a Human Insulin Solution

NMIJ CRM 6402-a Aldosterone in Human Serum

Renewal:

NMIJ CRM 6017-b L-Arginine (JCTLM DB listed)

Related publications:

“Development of a certified reference material of human serum albumin: certification and value assignment via amino acid analyses”, Kinumi T, Sakaguchi Y, Takatsu A; *Anal. Methods* 2017, 31: 4574-4580.

“Development of High-purity Certified Reference Materials for 17 Proteinogenic Amino Acids by Traceable Titration Methods.” Kato M, Yamazaki T, Kato H, Eyama S, Goto M, Yoshioka M, Takatsu A; *Anal. Sci.* 2015, 31(8): 805-14.

### 2. Planned activity(ies) in support of standardization in laboratory medicine

Planned Renewal of CRM:

NMIJ CRM 6201-c C-reactive Protein Solution

Development of reference measurement procedure based on following publication:

“Isotope-dilution liquid chromatography-tandem mass spectrometry for sensitive quantification of human insulin in serum using derivatization-technique.” Sakaguchi Y, Kinumi T, Takatsu A., *Anal. Biochem.* 2017, 537:26-32.

### 3. Promoting traceability in laboratory medicine

N/A

### 4. Reference laboratory networks /collaborations focusing on developing /implementing reference measurement systems

“Implementing a Reference Measurement System for C-Peptide: Successes and Lessons Learned”; Little, RR; Wielgosz, RI; Josephs, R; Kinumi, T, Takatsu, A; Li, HM; Stein, D; Burns, C; *Clin. Chem.* 2017, 63(9): 1447.

“Calibration and evaluation of routine methods by serum certified reference material for aldosterone measurement in blood.”, Nishikawa T1, Omura M, Kawaguchi M, Takatsu A, Satoh F, Ito S, Kurihara I, Itoh H, Yanase T, Shibata H, Oki Y, Naruse M, Sakurai K, Sasamoto H, Kuwa K.; *Endocr J.* 2016, 63(12):1065-1080.

Contribution to JCTLM: AT is a member of review team for Non-Electrolyte Metals

**5. Open questions and suggestions to be addressed by JCTLM**

N/A

Note: The information of this report will be accessible publicly on the relevant JCTLM Members webpage, unless the author of the report states otherwise. In the case the organization does not authorize the publication of the report in part or full, the author will add a statement to clarify which part(s) of the report will /will not be rendered public.