

BoviLab

Technical data 1st edition

I.B CO., LTD

Certified reference materials • Measurement range

	Certified reference materials	Supply agencies	Measurement range
AST	JCCLS CRM-001	ReCCS	10 ~ 1000 U/L
GGT	JCCLS CRM-001	ReCCS	10 ~ 600 U/L
CK	JCCLS CRM-001	ReCCS	50 ~ 9999 U/L
BUN	SRM912	NIST	4.0 ~ 150.0 mg/dL
CREA	JCCRM521	ReCCS	0.50 ~ 7.00 mg/dL
Ca	SRM915	NIST	1.50 ~ 16.00 mg/dL
IP	SRM200	NIST	0.60 ~ 15.00 mg/dL
Mg	Specified reference material compliant product	CERI	0.50 ~ 6.00 mg/dL
TC	JCCRM 211	ReCCS	10 ~ 600 mg/dL
GLU	JCCRM521	ReCCS	10 ~ 400 mg/dL
BHBA	In-house standard		100 ~ 8000 μmol/L
NEFA	In-house standard		50 ~ 1250 μEq/L
TP	SRM927	NIST	1.00 ~ 11.00 g/dL
ALB	ERM®-DA470	IRMM	0.50 ~ 7.00 g/dL

NIST : National Institute of Standards and Technology
ReCCS : Reference Material Institute for Clinical Chemistry Standards
IRMM : Institute for Reference Materials and Measurements
CERI : Chemicals Evaluation and Research Institute

Traceability

traceability



Certified reference materials

▼ ← ← ← ← **Manufacture's SOP (IVD)**

Manufacture's working calibrator

▼ ← ← ← ← **Manufacture's SOP (IVD)**

Commutable reference samples

▼ ← ← ← ← **Manufacture's SOP (BoviLab)**

End-user calibrator

▼ ← ← ← ← **End-user vIVD (BoviLab)**

Bovine sample with result

transferability



Within-run reproducibility

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Within-run reproducibility using whole blood

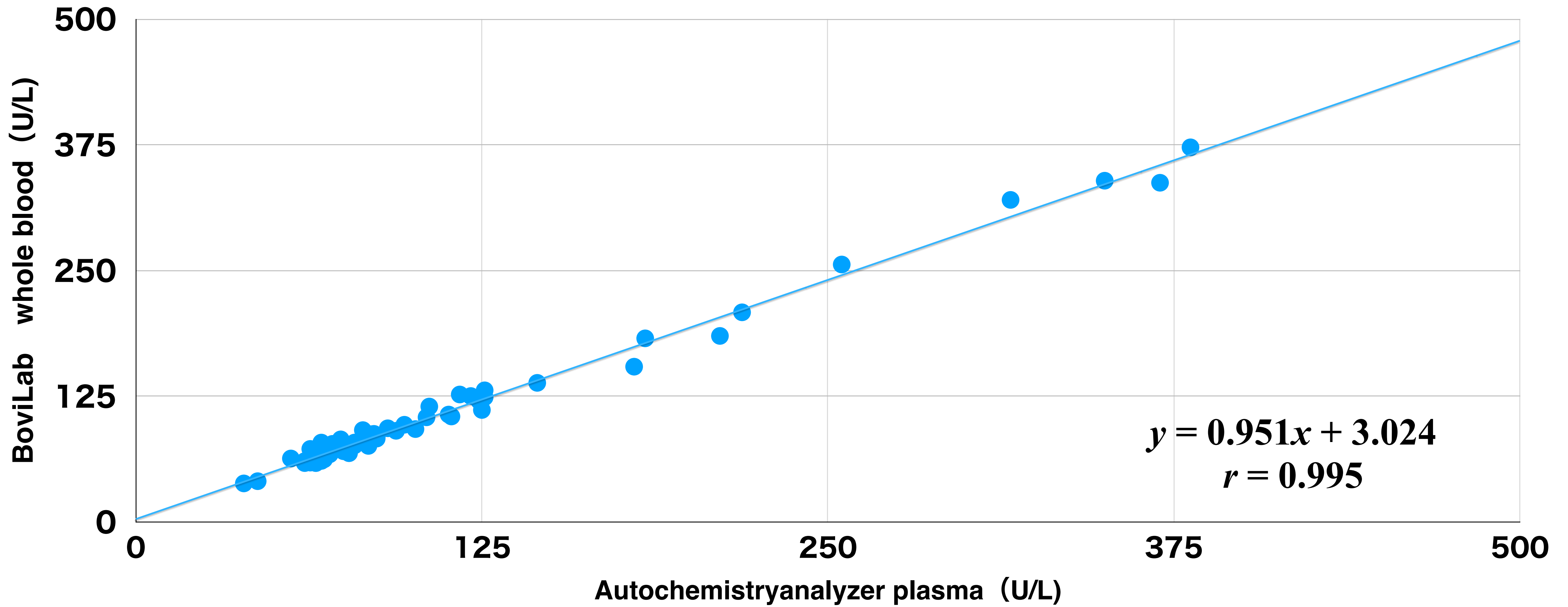
	AST	GGT	CK	BUN	CRE	Ca	IP	Mg	TC	GLU	BHBA	NEFA	TP	ALB
unit	U/L	U/L	U/L	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	mg/dL	μmol/L	μEq/L	g/dL	g/dL
1	100	23	231	9.0	2.01	9.41	5.26	2.10	173	64	805	375	9.27	4.02
2	96	24	223	9.0	1.81	9.49	5.49	2.15	176	66	851	371	9.06	4.04
3	100	22	237	8.7	1.85	9.50	5.23	2.16	171	65	855	345	8.96	4.00
4	101	24	236	8.7	1.85	9.50	5.47	2.16	175	65	818	374	9.13	3.95
5	99	22	239	7.8	2.08	9.19	5.30	2.23	171	64	826	351	8.57	4.06
6	103	25	249	9.1	1.84	9.54	5.37	2.18	172	65	778	365	8.88	3.96
7	96	23	237	9.1	2.09	9.26	5.36	2.15	177	66	801	293	8.98	3.99
8	106	24	235	8.3	1.90	9.45	5.30	2.20	175	65	820	362	8.87	4.09
9	97	22	244	9.2	1.84	9.73	5.31	2.26	176	66	814	374	8.99	3.90
10	98	24	245	9.6	1.76	9.62	5.27	2.09	176	62	793	408	9.11	4.07
11	104	22	236	8.9	1.73	9.67	5.49	2.28	173	64	805	354	9.62	3.99
12	103	22	249	9.1	1.90	9.42	5.38	2.17	173	64	800	356	8.63	4.03
13	107	23	245	9.1	1.94	9.10	5.32	2.14	173	62	821	364	8.54	4.07
14	99	24	226	8.8	1.84	9.39	5.27	2.07	174	62	793	380	9.16	4.01
15	102	24	239	8.9	1.76	9.20	5.11	2.07	172	64	802	376	9.57	4.12
<i>Mean</i>	100.7	23.2	238.1	8.89	1.880	9.431	5.329	2.160	173.8	64.3	812.1	363.2	9.023	4.020
<i>Max.</i>	107	25	249	9.6	2.09	9.73	5.49	2.30	177	66	855	408	9.62	4.10
<i>Min.</i>	96	22	223	7.8	1.73	9.10	5.11	2.10	171	62	778	293	8.54	3.90
<i>R</i>	11	3	26	1.8	0.36	0.63	0.38	0.20	6	4	77	115	1.08	0.20
<i>S.D.</i>	3.41	1.01	7.63	0.42	0.11	0.18	0.10	0.06	1.93	1.39	20.86	24.55	0.32	0.06
<i>C.V</i>	3.4%	4.4%	3.2%	4.7%	5.8%	1.9%	1.9%	2.9%	1.1%	2.2%	2.6%	6.8%	3.5%	1.4%

Correlation

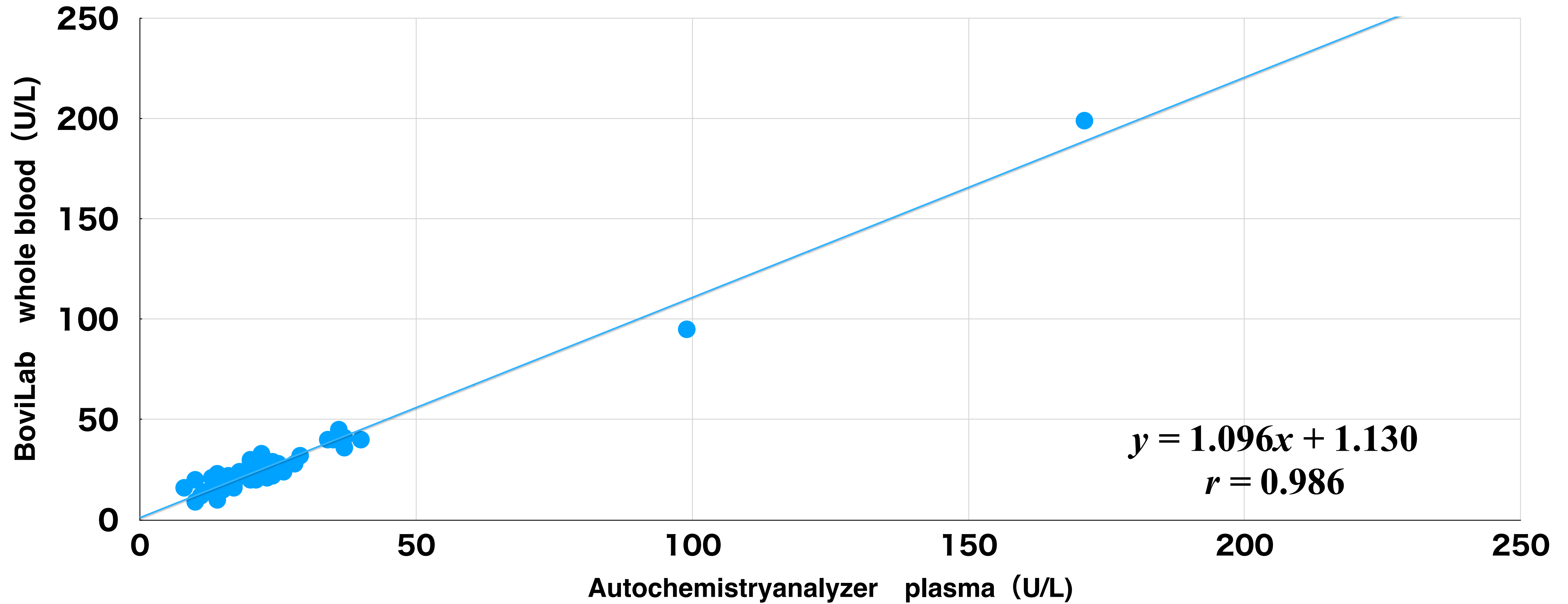
Correlation between Autoanalyzer Method and BoviLab Method

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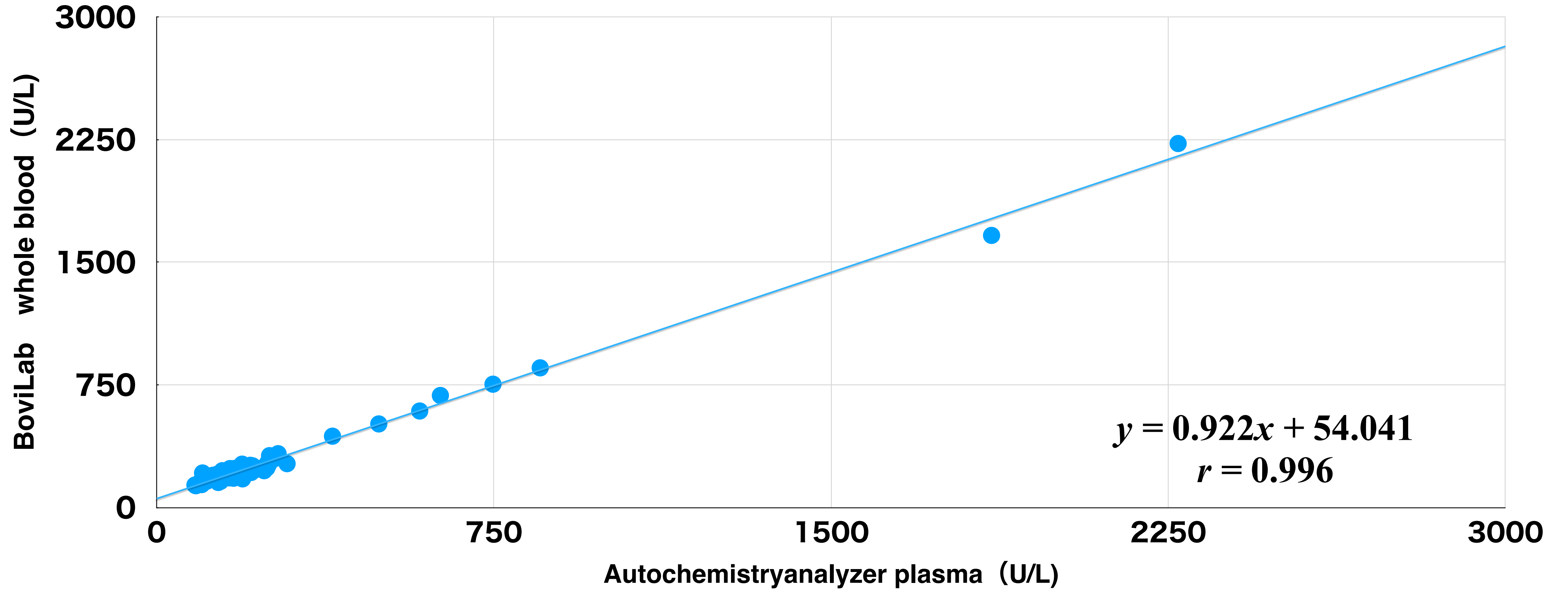
AST



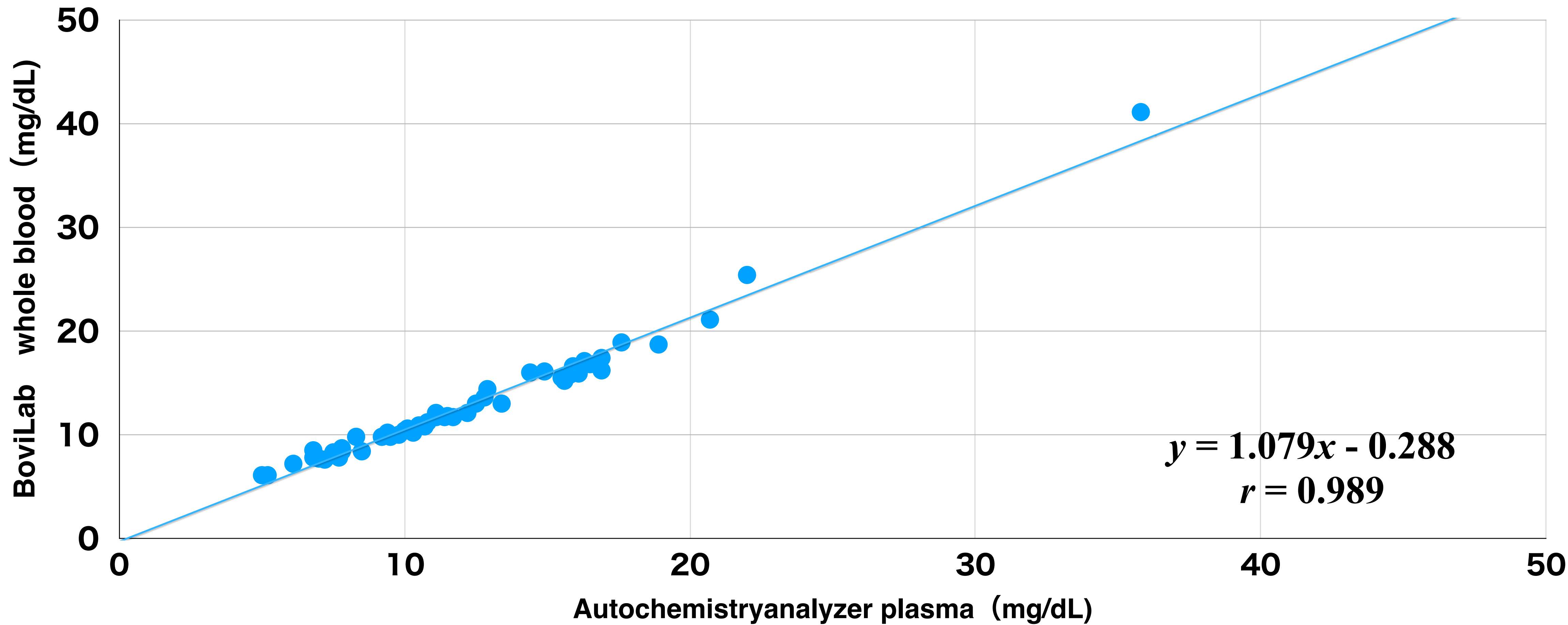
GGT



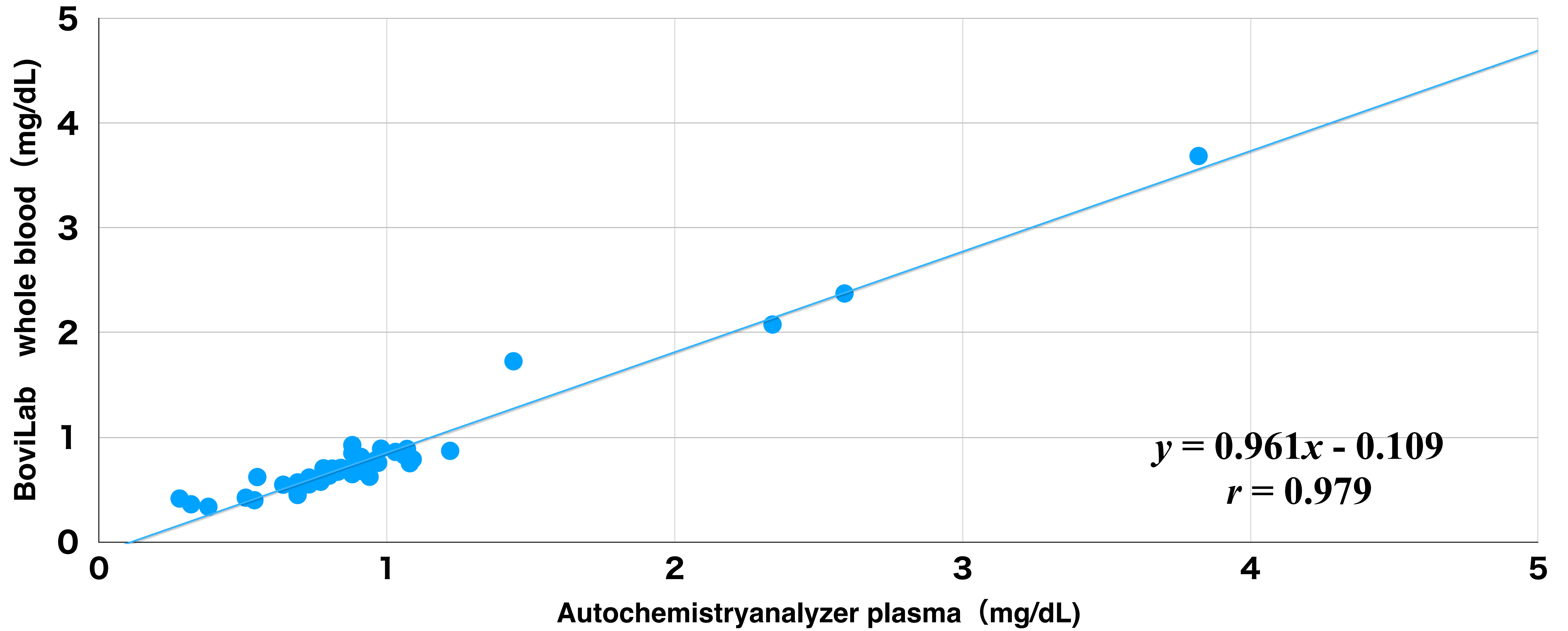
CK



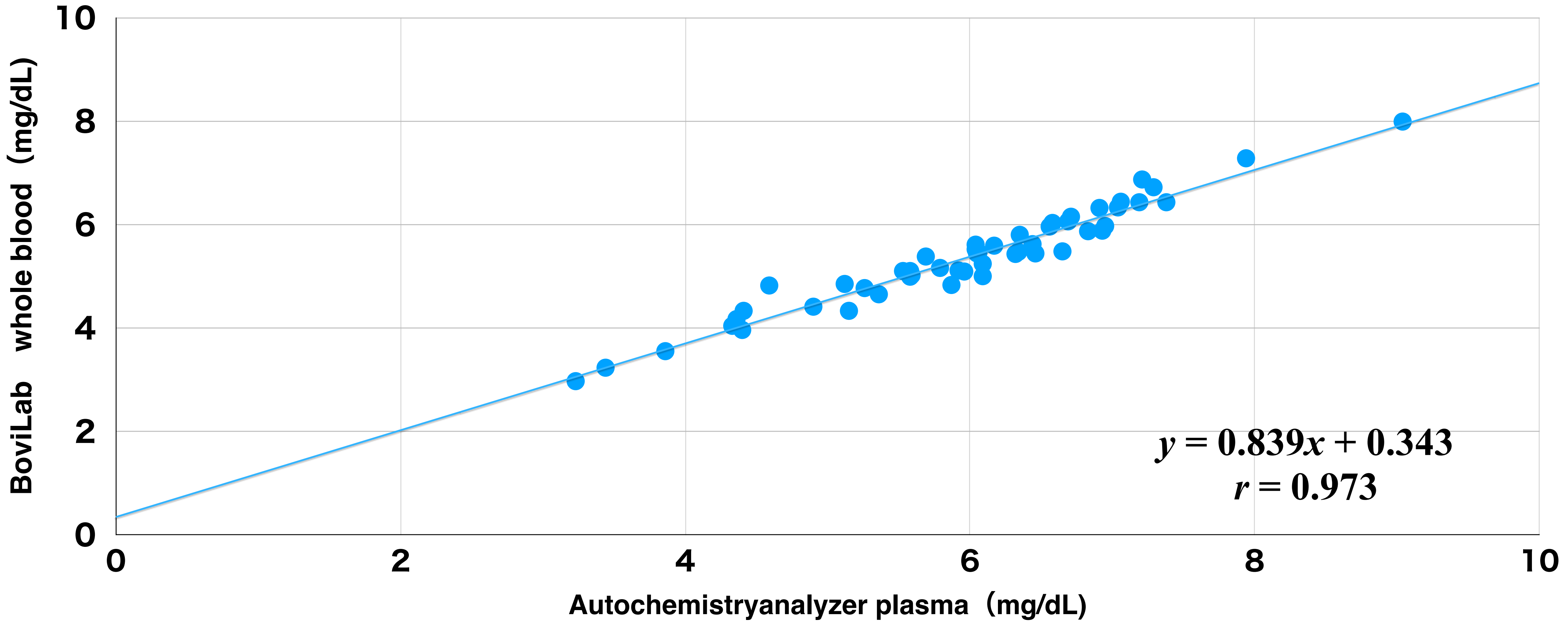
BUN



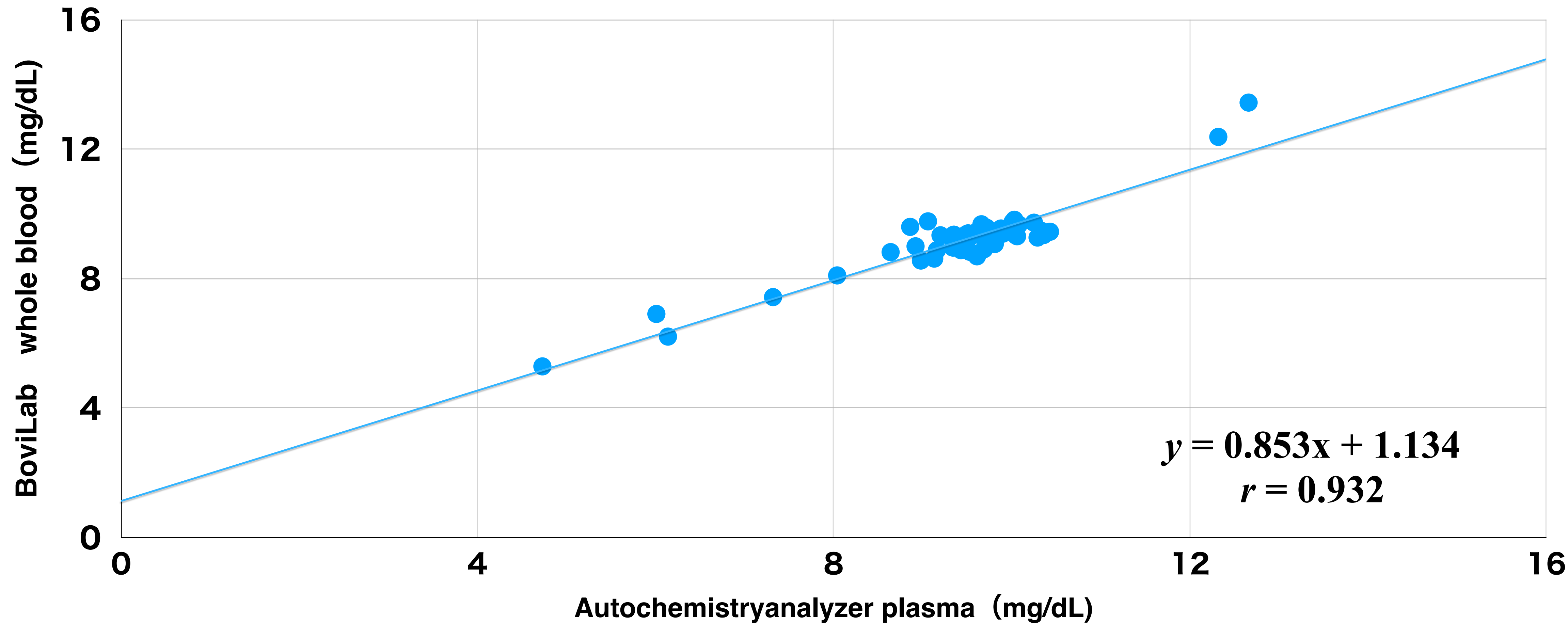
CREA



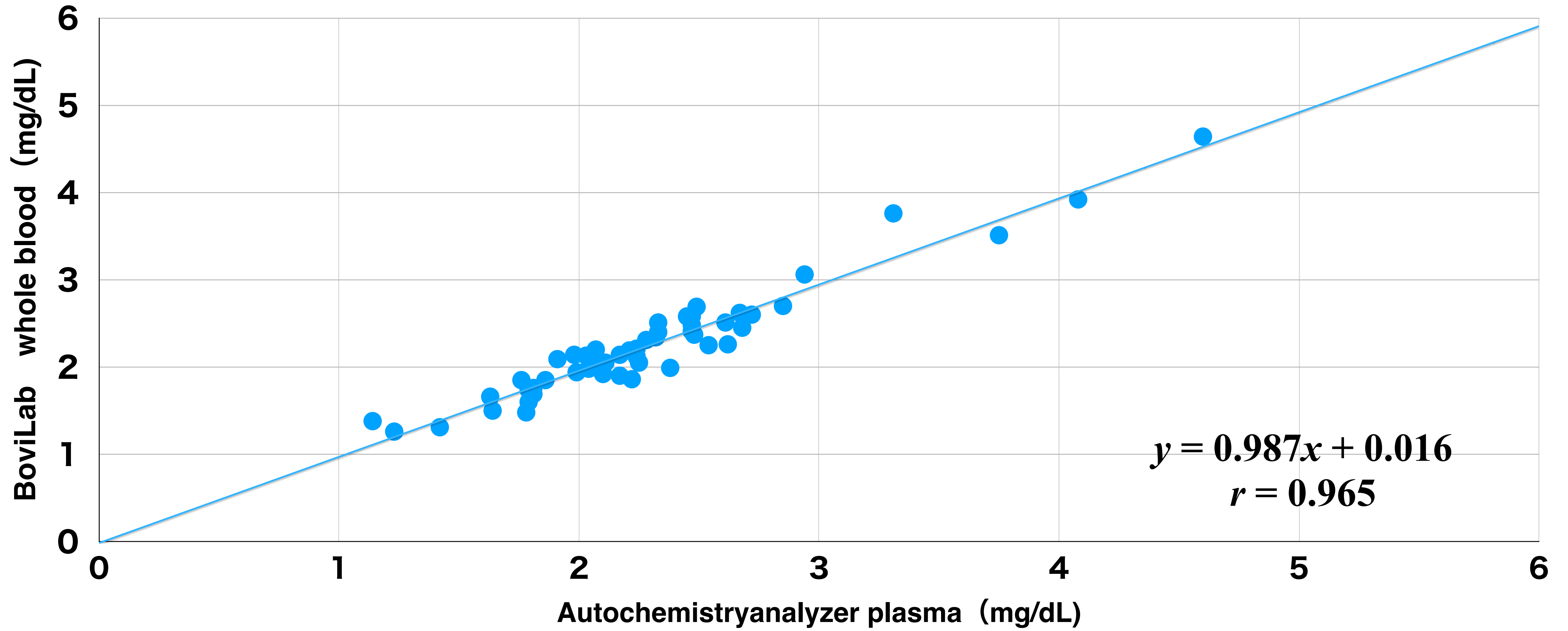
IP



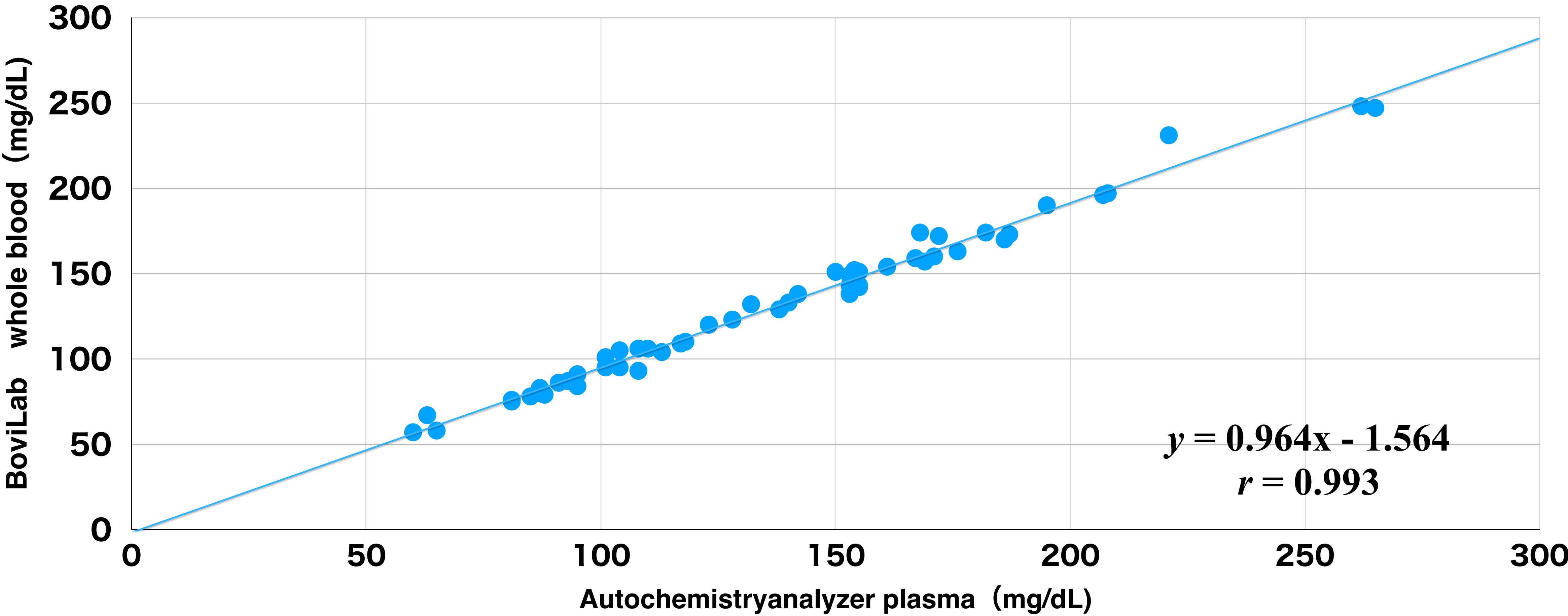
Ca



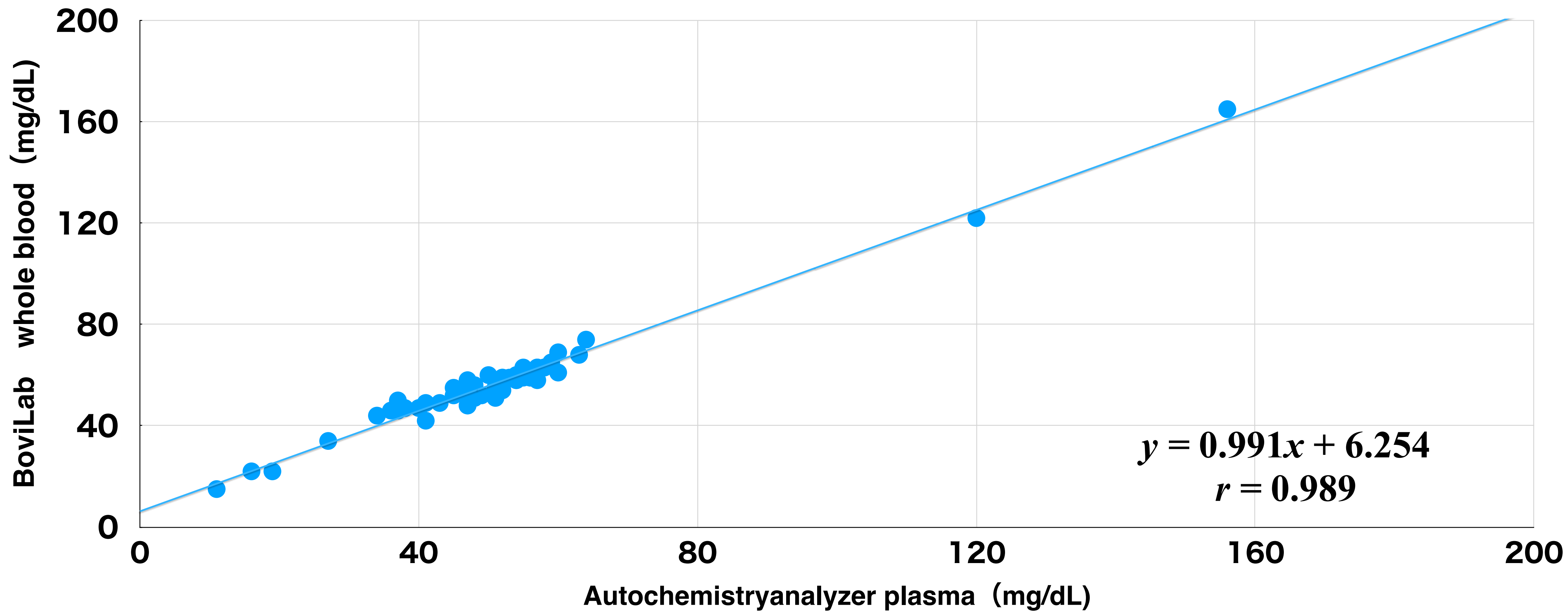
Mg



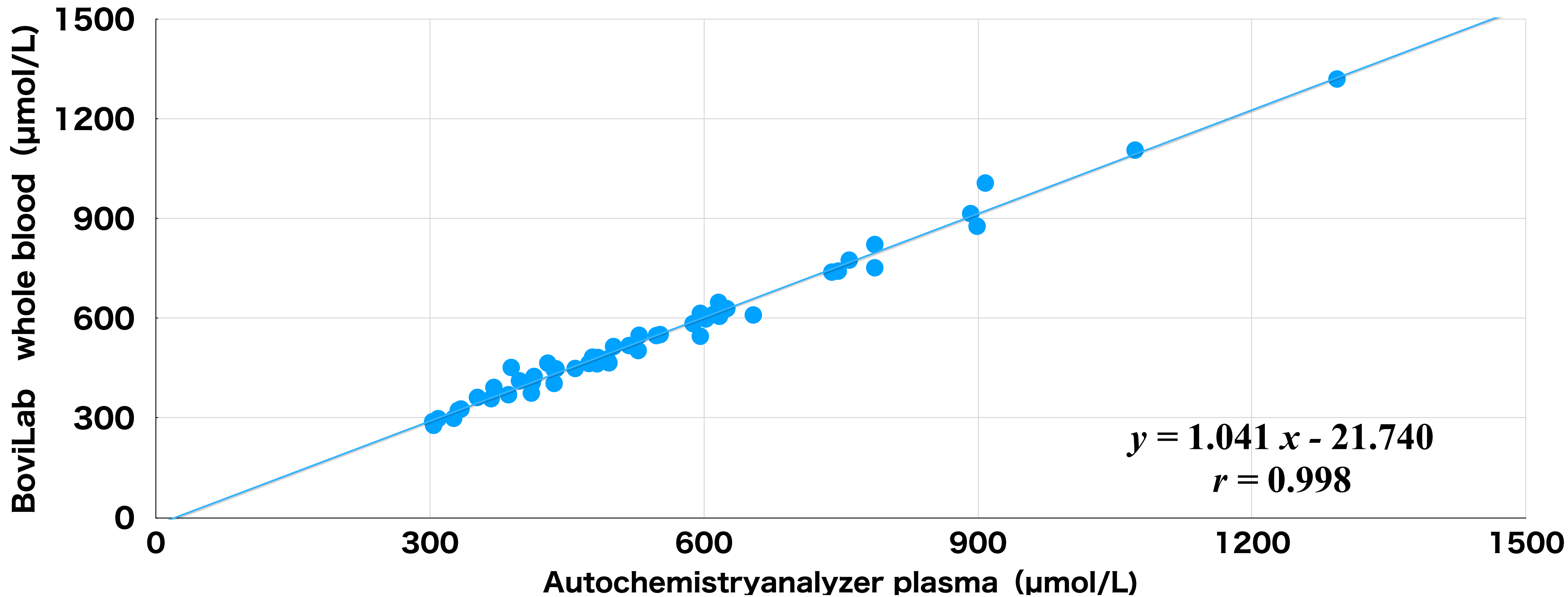
TC



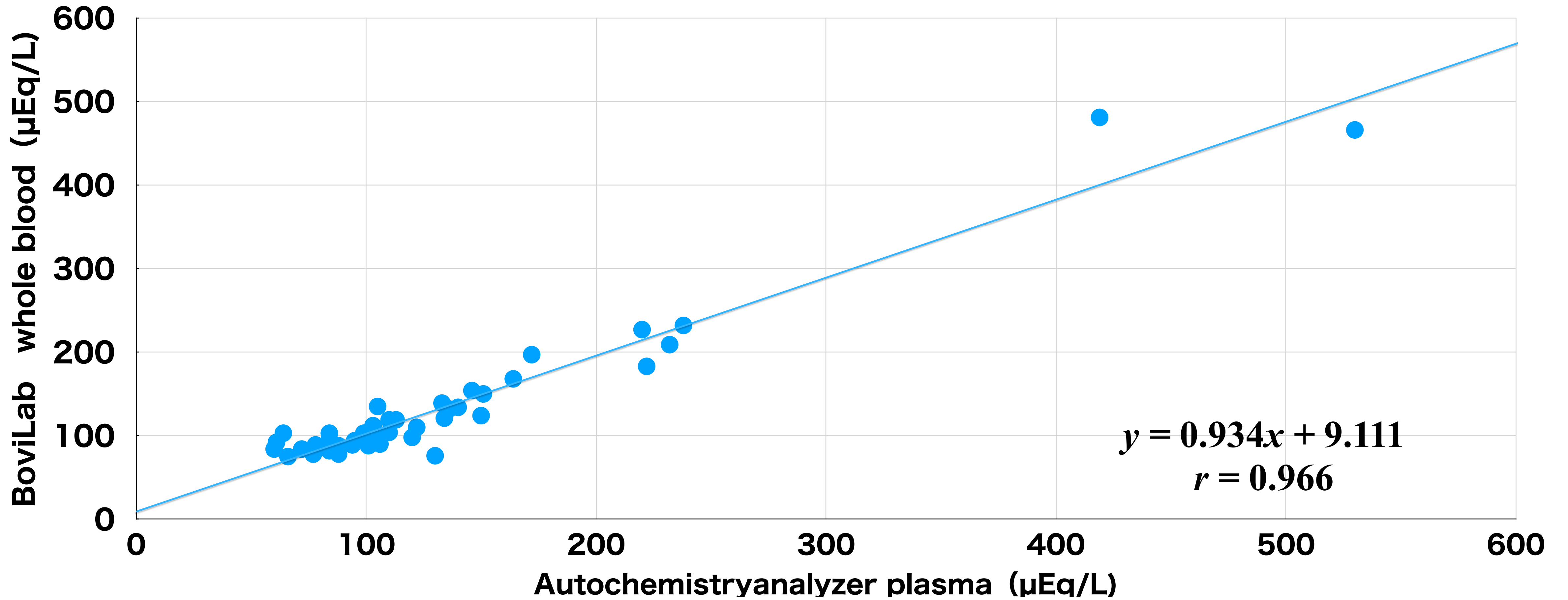
GLU



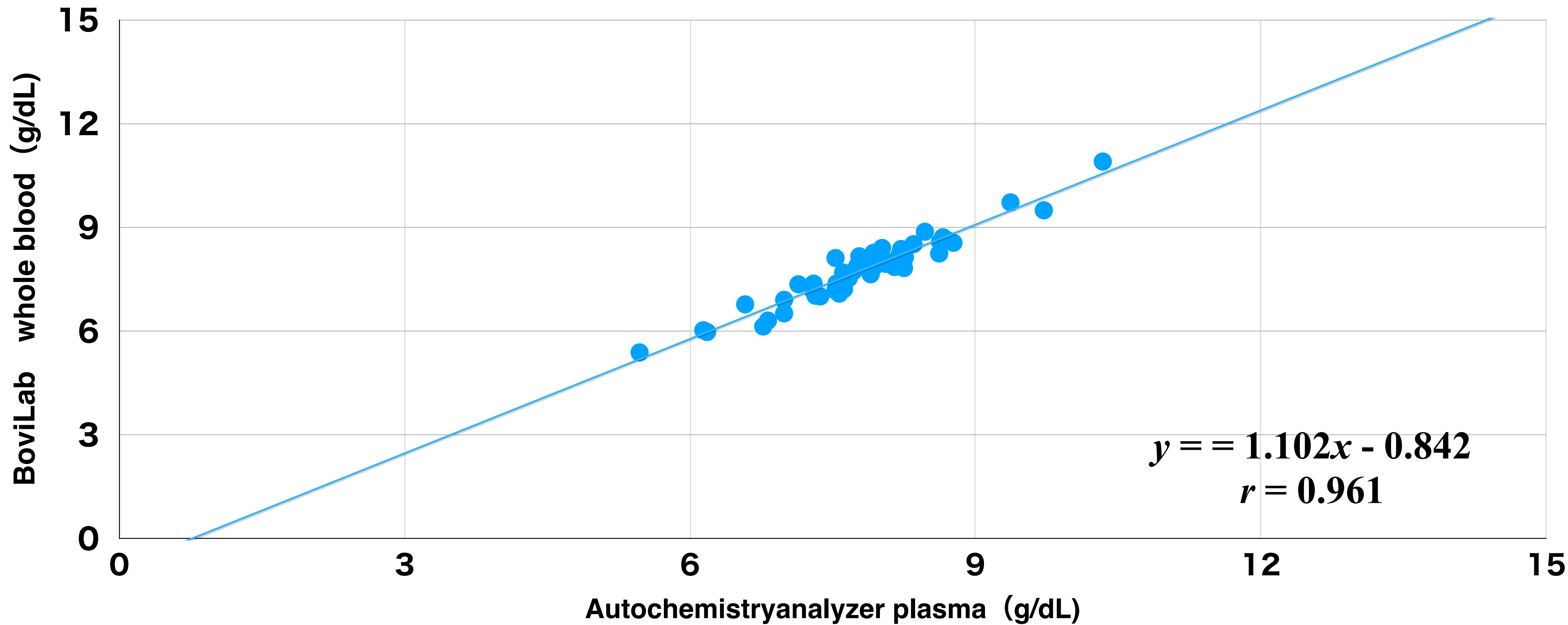
BHBA



NEFA



TP



ALB

