Table 1

Alloys	Au	Pt	In	Fe	Zn	Sn	Rh & Ta
AP10	90.1	9.9	0	0	0	0	0
AP10-In1.0	89.1	9.9	1.0	0	0	0	0
AP10-In1.7	88.4	9.9	1.7	0	0	0	0
AP10-Fe0.8	89.2	10.0	0	0.8	0	0	0
AP10-Fe1.9	88.3	9.8	0	1.9	0	0	0
AP10-Zn1.7	88.5	9.8	0	0	1.7	0	0
AP10-Sn0.9	89.2	9.9	0	0	0	0.9	0
(AP10-In2)-Fe1.0	87.3	9.7	2.0	1.0	0	0	0
(AP10-In2)-Fe1.7	86.6	9.7	2.0	1.7	0	0	0
(AP10-In2)-Zn2.1	86.3	9.6	2.0	0	2.1	0	0
(AP10-In2)-Sn1.0	87.3	9.8	1.9	0	0	1.0	0
BiOcclus 4	83.3	10.8	2.8	0	1.5	0	1.6

Table 2

Elements	Detection limits (ng L^{-1})
Pt, Zn, Sn, Rh, Ta	1
In	3
Fe	5
Au	6

Table 3

Element	Ion Release ($\mu g/cm^2$)		
	Deionised Water	Sprite Light® 5 min	Sprite Light® 2 hrs
Au	0.019 (a)	0.017 (b)	0.136 (c)
Pt	0.108 (d)	0.038 (e)	0.116 (f)
In	0.291 (g)	0.341 (h)	0.467 (i)
Fe	43.6 (j)	117.5 (k)	128.7 (l)
Zn	0.733 (m)	2.46 (n)	4 (o)
Sn	0.017 (p)	0.14 (q)	0.088 (r)
Rh	0.005 (s)	0.004 (t)	0.008 (u)
Ta	0.02 (v)	0.02 (w)	0.028 (x)

Figure 1

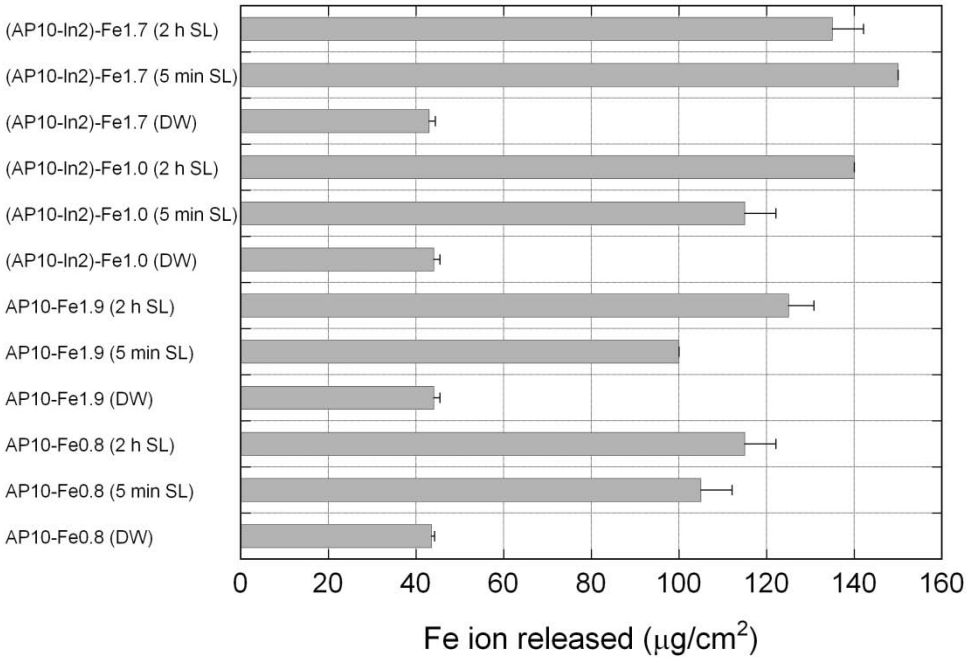

(AP10-In2)-Fe1.7 (2 h SL)
(AP10-In2)-Fe1.7 (5 min SL)
(AP10-In2)-Fe1.7 (DW)
(AP10-In2)-Fe1.0 (2 h SL)
(AP10-In2)-Fe1.0 (5 min SL)
(AP10-In2)-Fe1.0 (DW)
AP10-Fe1.9 (2 h SL)
AP10-Fe1.9 (5 min SL)
AP10-Fe1.9 (DW)
AP10-Fe0.8 (2 h SL)
AP10-Fe0.8 (5 min SL)
AP10-Fe0.8 (DW)
0
20
40
60
80
100
120
140
160
Fe ion released (μg/cm2)

Figure 2

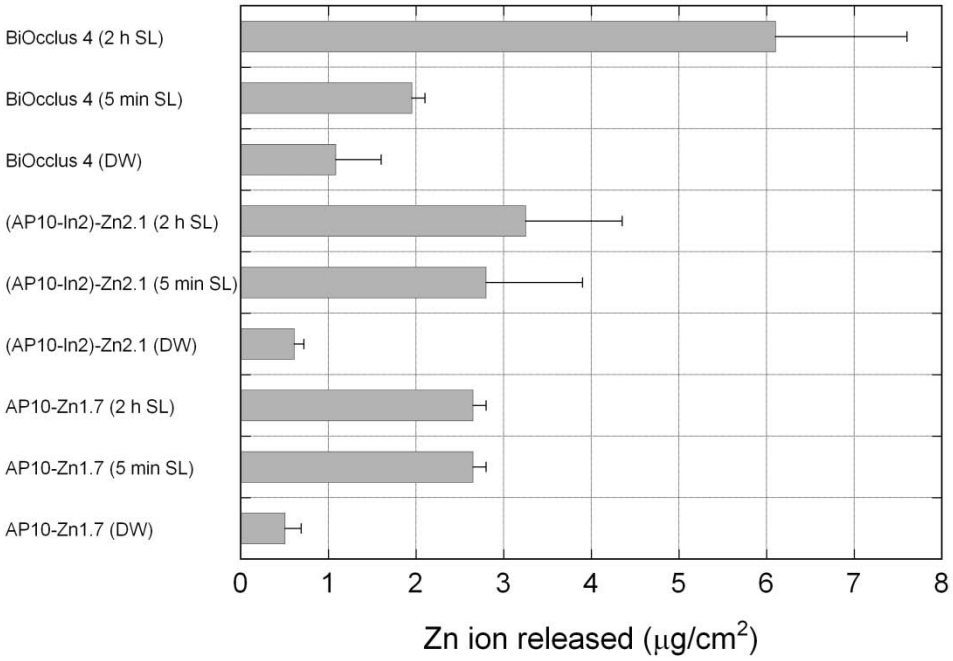

BiOcclus 4 (2 h SL)
BiOcclus 4 (5 min SL)
BiOcclus 4 (DW)
(AP10-In2)-Zn2.1 (2 h SL)
(AP10-In2)-Zn2.1 (5 min SL)
(AP10-In2)-Zn2.1 (DW)
AP10-Zn1.7 (2 h SL)
AP10-Zn1.7 (5 min SL)
AP10-Zn1.7 (DW)
0
1
2
3
4
5
6
7
8
Zn ion released (μg/cm2)

Figure 3

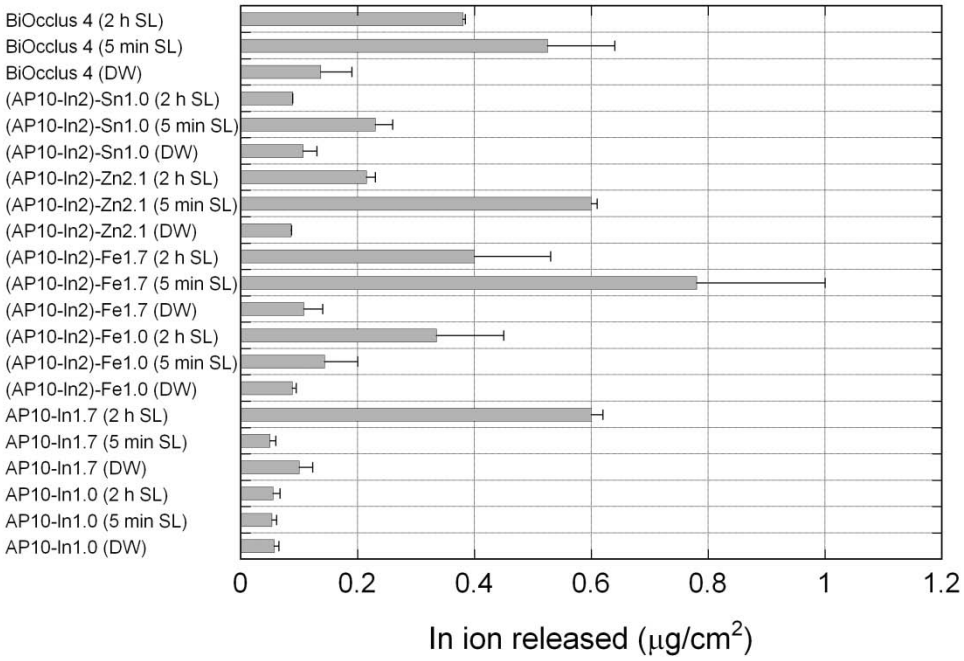
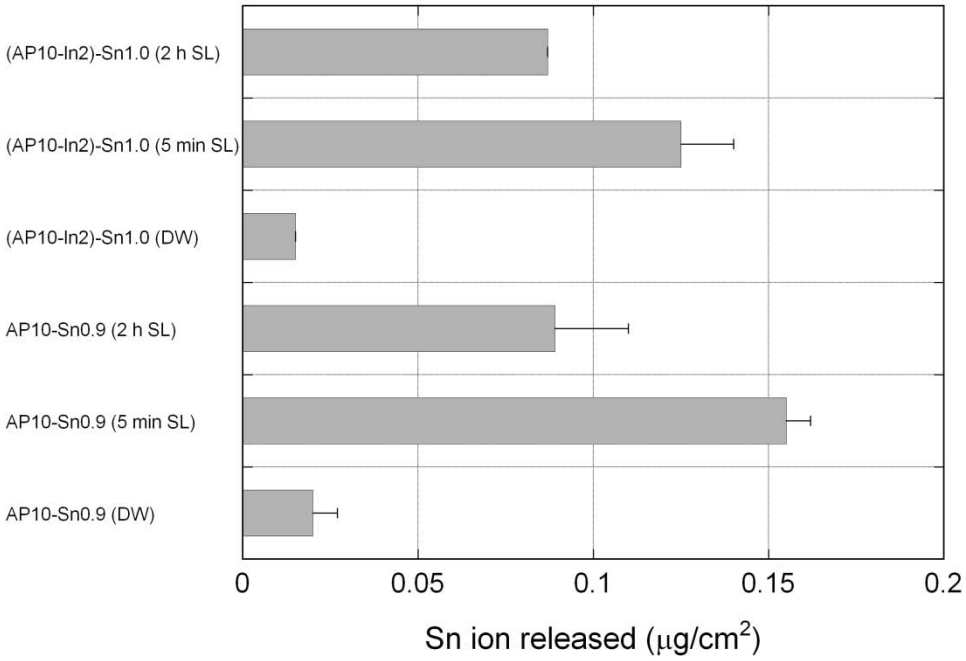

BiOcclus 4 (2 h SL)
BiOcclus 4 (5 min SL)
BiOcclus 4 (DW)
(AP10-In2)-Sn1.0 (2 h SL)
(AP10-In2)-Sn1.0 (5 min SL)
(AP10-In2)-Sn1.0 (DW)
(AP10-In2)-Zn2.1 (2 h SL)
(AP10-In2)-Zn2.1 (5 min SL)
(AP10-In2)-Zn2.1 (DW)
(AP10-In2)-Fe1.7 (2 h SL)
(AP10-In2)-Fe1.7 (5 min SL)
(AP10-In2)-Fe1.7 (DW)
(AP10-In2)-Fe1.0 (2 h SL)
(AP10-In2)-Fe1.0 (5 min SL)
(AP10-In2)-Fe1.0 (DW)
AP10-In1.7 (2 h SL)
AP10-In1.7 (5 min SL)
AP10-In1.7 (DW)
AP10-In1.0 (2 h SL)
AP10-In1.0 (5 min SL)
AP10-In1.0 (DW)
0
0.2
0.4
0.6
0.8
1
1.2
In ion released (μg/cm2)

Figure 4


(AP10-In2)-Sn1.0 (2 h SL)
(AP10-In2)-Sn1.0 (5 min SL)
(AP10-In2)-Sn1.0 (DW)
AP10-Sn0.9 (2 h SL)
AP10-Sn0.9 (5 min SL)
AP10-Sn0.9 (DW)
0
0.05
0.1
0.15
0.2
Sn ion released (μg/cm2)