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Gene transfection of HEK cells on supermacroporous polyacrylamide monoliths: a comparison of transient and stable recombinant protein expression in perfusion culture

Article

Accepted Version

Figures

Cheeks, M. C., Edwards, A. D. ORCID: https://orcid.org/0000-0003-2369-989X, Arnot, C. J. and Slater, N. K.H. (2009) Gene transfection of HEK cells on supermacroporous polyacrylamide monoliths: a comparison of transient and stable recombinant protein expression in perfusion culture. New Biotechnology, 26 (6). pp. 289-299. ISSN 1871-6784 doi: 10.1016/j.nbt.2009.08.006 Available at https://centaur.reading.ac.uk/8004/

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Published version at: http://dx.doi.org/10.1016/j.nbt.2009.08.006

To link to this article DOI: http://dx.doi.org/10.1016/j.nbt.2009.08.006

Publisher: Elsevier

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Figure 1

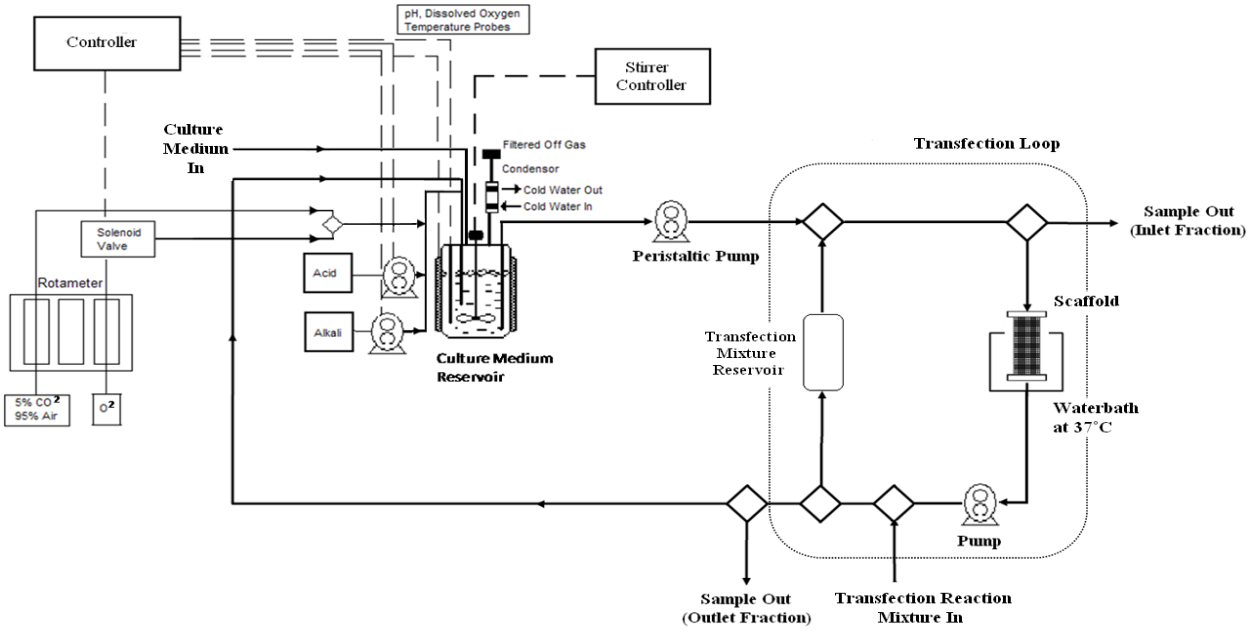


Figure 2

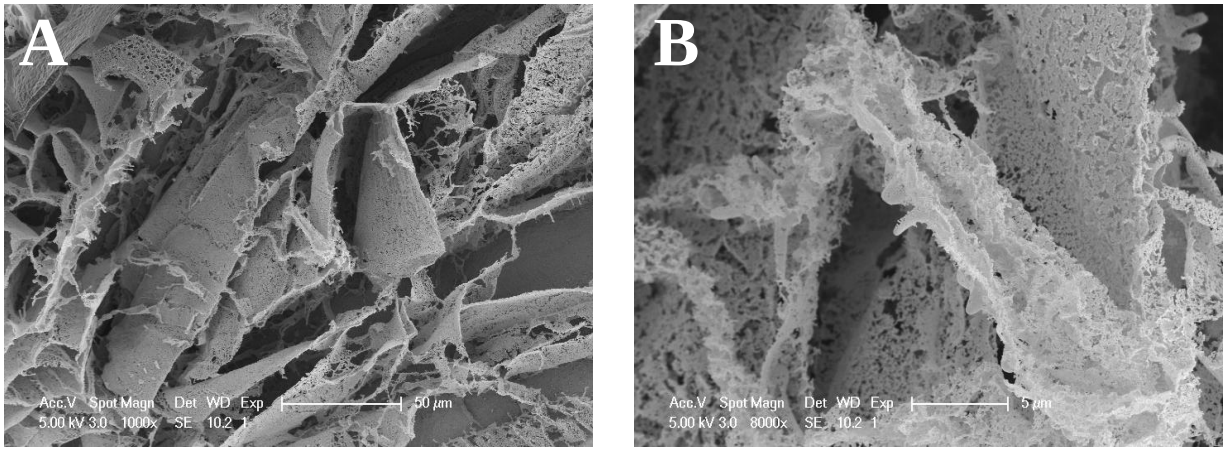


Figure 3

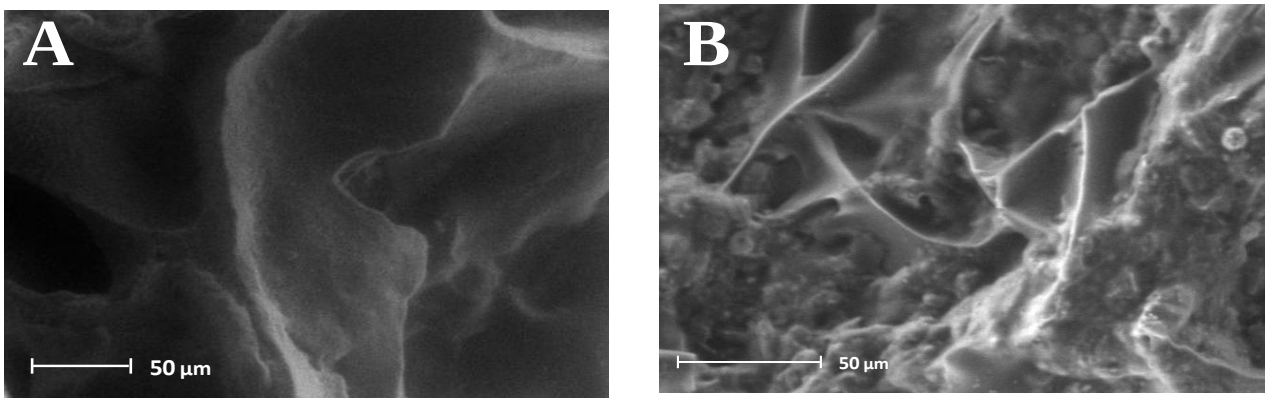


Figure 4

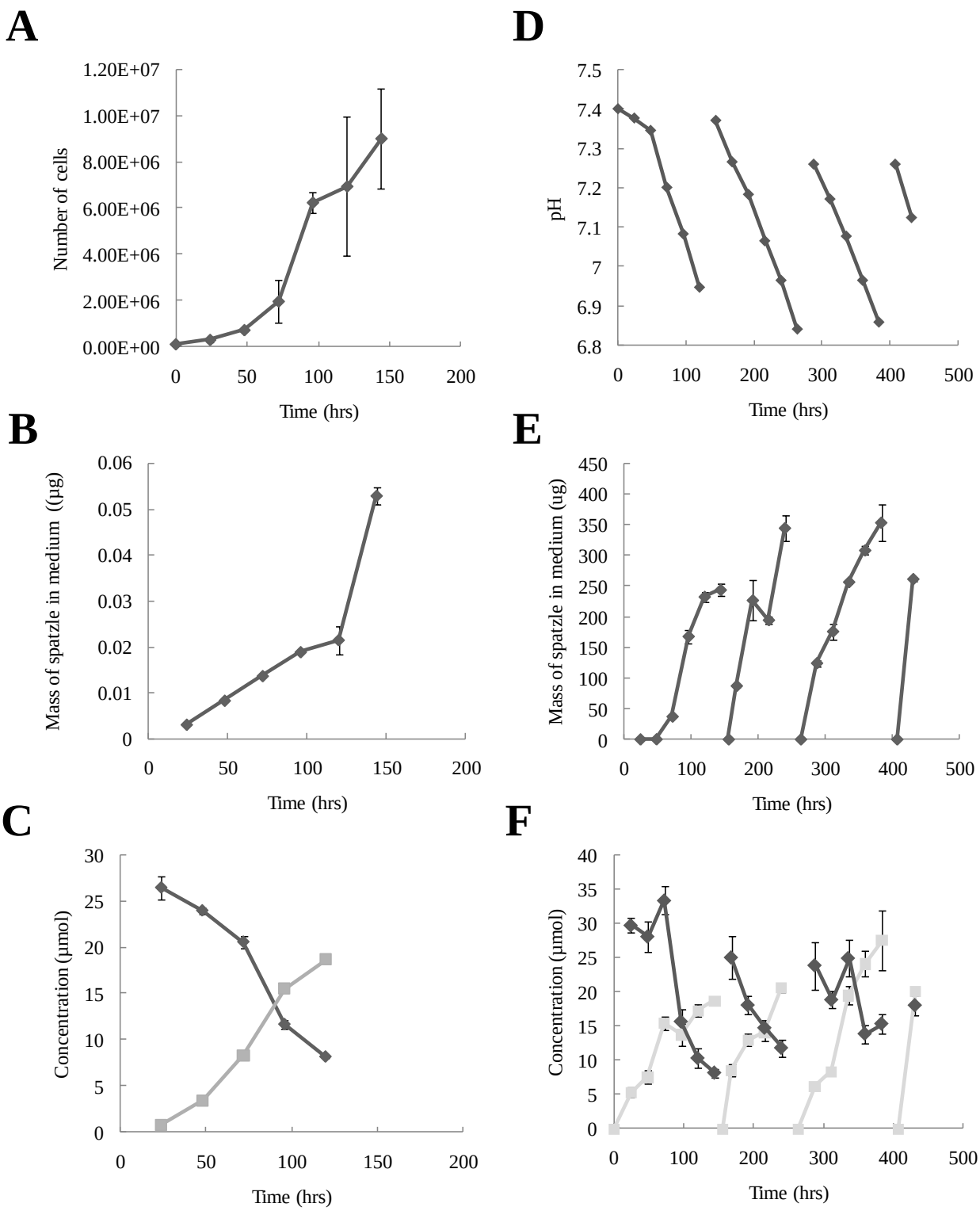

A
Number of cells
1.20E+07
1.00E+07
8.00E+06
6.00E+06
4.00E+06
2.00E+06
0.00E+00
0
50
100
150
200
Time (hrs)
D
pH
7.5
7.4
7.3
7.2
7.1
7
6.9
6.8
0
100
200
300
400
500
Time (hrs)
B
Mass of spatzle in medium ((µg)
0.06
0.05
0.04
0.03
0.02
0.01
0
0
50
100
150
200
Time (hrs)
E
Mass of spatzle in medium (ug)
450
400
350
300
250
200
150
100
50
0
0
100
200
300
400
500
Time (hrs)
C
Concentration (µmol)
30
25
20
15
10
5
0
0
50
100
150
200
Time (hrs)
F
Concentration (µmol)
40
35
30
25
20
15
10
5
0
0
100
200
300
400
500
Time (hrs)

Figure 5

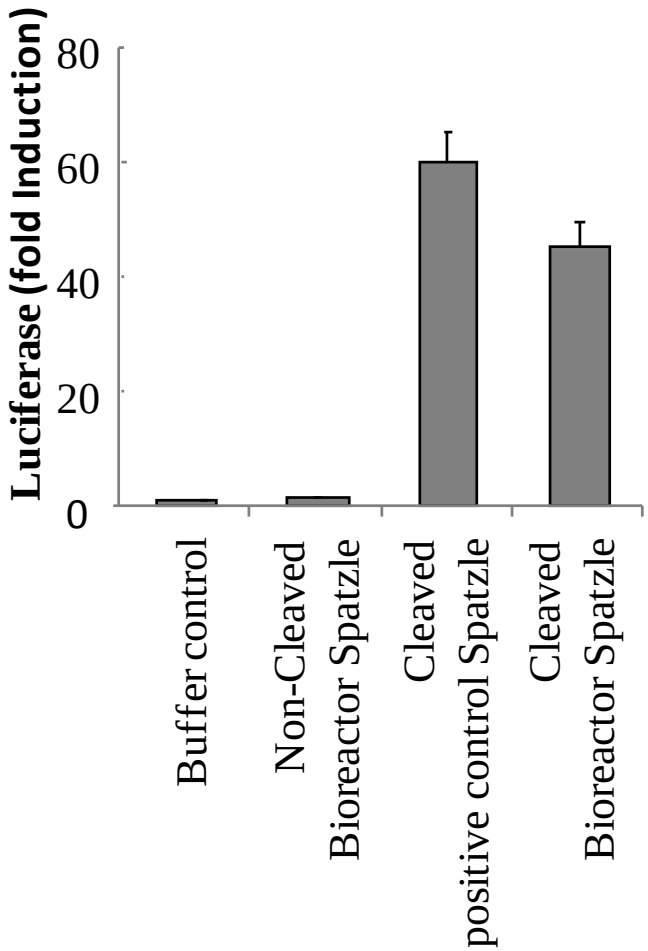
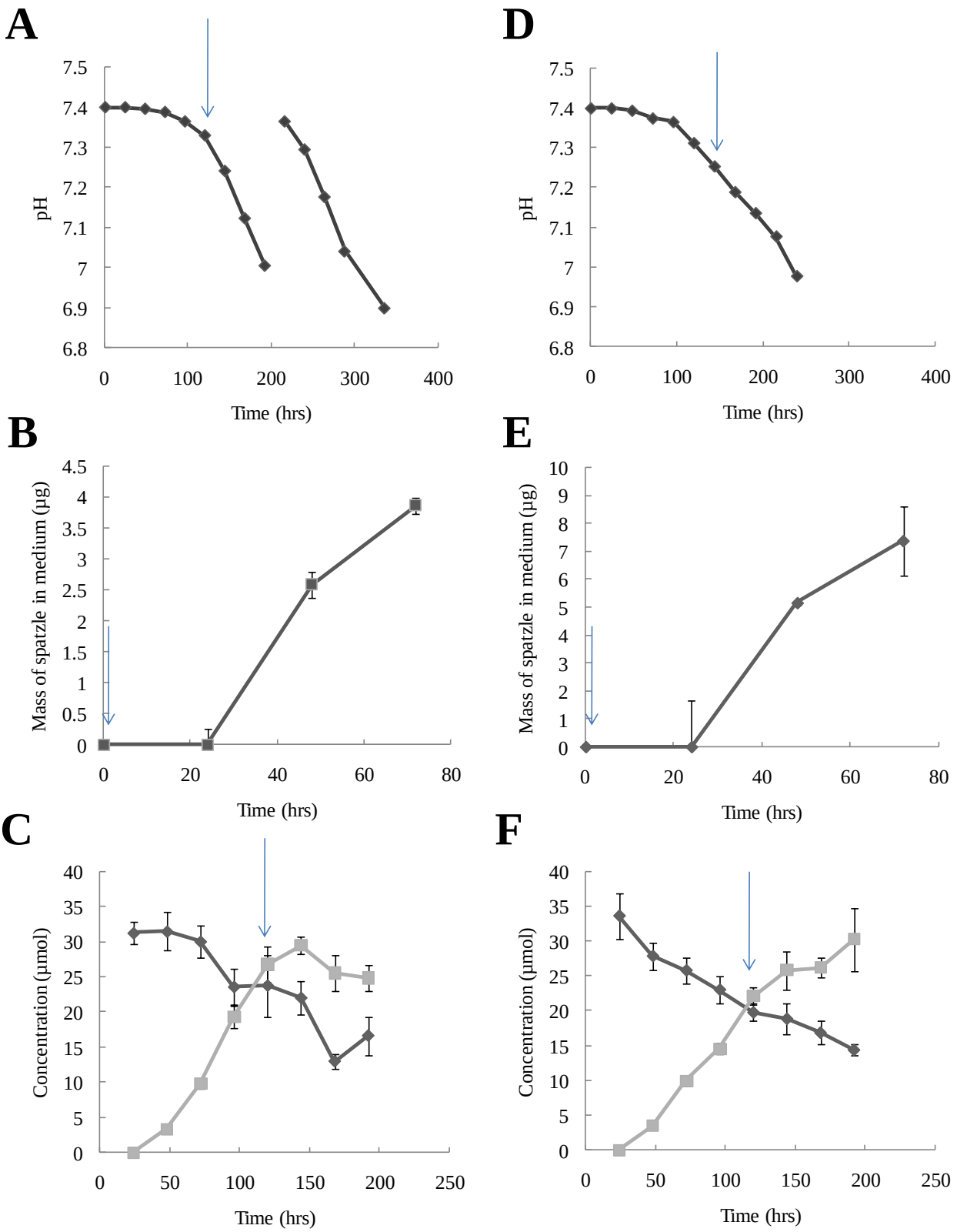

Luciferase (fold Induction)
80
60
40
20
0
Buffer control
Non-Cleaved Bioreactor Spatzle
Cleaved positive control Spatzle
Cleaved Bioreactor Spatzle

Figure 6


A
pH
Time (hrs)
D
pH
Time (hrs)
B
Mass of spatzle in medium (µg)
Time (hrs)
E
Mass of spatzle in medium (µg)
Time (hrs)
C
Concentration (µmol)
Time (hrs)
F
Concentration (µmol)
Time (hrs)

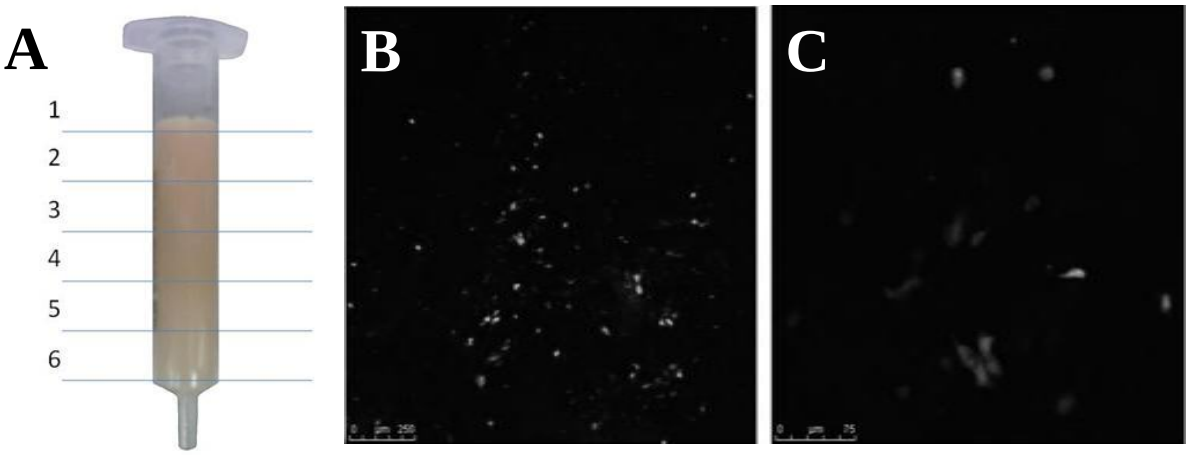



Figure 7