Results of Competition:BiofilmsCompetition Code:1506_FS_EMTECH_I_BF

Total available funding for this competition was £3M from BBSRC and Innovate UK

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant	
WH Partnership Ltd	Online Microbial Fuel Cell Biofilm	£89,811	£69,852	
Newcastle University	BOD Sensor			
University of South Wales				
Project description - provided by applicants				
Monitoring of organic pollution in wastewater is a difficult challenge for the water treatment industry. Due toinfrequent sampling there is a high possibility that pollution could be discharged into the environmentundetected and lead to further problems downstream. Bioelectrochemical sensing systems are an emerging technology which uses biofilms grown upon electrodes toconvert organic pollution into electricity. Based on the amount				

of electricity generated, the amount of organicpollution can be determined. This approach can therefore be used to provide continuous online monitoring ofwastewaters in virtually real-time in comparison with existing measurements requiring 5 days. The project will deliver a prototype sensor based on Bioelectrochemical Systems, capable of being retrofitted existing wastewater treatment plant infrastructure, in order to rapidly measure Biochemical Oxygen Demand(organic pollution) and Toxicity.ublic Project Summary

Note: you can see all Innovate UK-funded projects here

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Parkside Flexibles (Europe) Ltd	AntiCampylobacter BioFilm	£99,483	£81,289
SciTech Adhesives Systems Ltd	Technology (AC-BIT)		
Banham Poultry Ltd			
Institute of Food Research			
Bangor University			
Project description - provided by applicants			

To prevent transmission in the human food chain this feasibility project will target control of biofilms formed bymicrobial pathogens in the meat supply chain. The work will be tested Campylobacter and Salmonella, two of the most common foodborne pathogens in the United Kingdom. A particular focus will be given to the possible inhibition and removal of such biofilms using natural products. The research will build-up on multi-disciplinary expertise in pathogen biofilm, meat supply chain processing, and natural product chemistry. This will underpin future research on the design of anti-biofilm products for the meat packaging or cleaningproduct industry, which will be used in subsequent projects for usage in cleaning products formulation for thefood industry, or in meat packaging (MAP trays, soaker pads or sealing foils). This work will have an impact on food poisoning, which represents a major challenge to the food industry, andto the National Health Service.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Neem Biotech Ltd Membranology Ltd	Development of an active wound dressing built with electrospun	£98,322	£68,825
Jellagen Pty Ltd	delivering natural antimicrobial agents.		

Project description - provided by applicants

Biofilms are present in chronic wounds and are known to contribute to continued infection and inflammationwith antibiotic resistance of biofilms complicating the problem. Current wound healing treatments areassociated with antibiotic resistance and often use mammalian (bovine) collagen treatments, which riskscontamination from disease causing agents such as prions (Bovine spongiform encephalopathy) andinterspecies viruses. In the present Feasibility Study, by embedding jellyfish collagen with novel plant derivedantimicrobials, it will be possible to produce a prototype product capable of delivering antimicrobial agentsdirectly to the wound and reduce the need for antibiotics.By combating biofilms in chronic wounds, the consortium will reduce the burden on the NHS and drasticallyimprove the quality of life of chronic wound sufferers. The wound healing product output of this project willaddress the current problems with wound chronicity that contribute to this growing problem in the UK.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Unilever UK Central Resources Ltd	Real time visualisation & modelling	£99,045	£74,069
University of York	of biofilm inhibition by lactam		
Project description - provided by applica	ants		
Microbial control actives drive hygiene performan options are receiving safety, regulatory and NGC surfaces. Current cleaning productscontain anti-r Thereis increased industrial interest in commerci lactam analogues jam quorum sensing. To-date visualise in real-time phenotypic changes to non- stages of non-planktonic cell-surface association light on cellular attraction and active diffusivity ar complementary anti-biofilm technologies.	nce or preservation in FMCG formula of pressure and have beenshown to be microbial actives that improve surface alising anti-biofilm technologies that p it is not fully understood whichstage(s planktonic bacteria induced by a solu- to lasting impact on mature biofilm s and help us identify the limitingfactor(s)	tions, packaging, andprocessin e ineffective on established bio e hygiene and freshness by killi push the boundaries in healthan s) of the process they impact of uble lactam analogue and in tar structure and functionality. Moni-) in biofilm growth inhibition and	g. Today's petrochemical films on inert or biological ng planktonic microbes. nd hygiene. Furanone derived n. This project aims to ndem model the very earliest itoringflow dynamics will shed d design novel or

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Unilever UK Central Resources Ltd	The use of beta-lactams to prevent biofilm growth in durable	£100,000	£75,000
	nonwovens		
Project description - provided by applica	ants		
Within the nonwovens sector personal and house contamination. In durable nonwovens the hygien compounds. However these presentenvironment increasingmicrobial resistance. Recently the scre sensing during biofilm growth and development. textiles. Using different applicationtechniques du the surface, of polyolefin and cellulosic materials the possibility of a biotechnology platform that co	ehold care, hygiene, medical and filtre e problem is addressedmostly throug al and toxicological risks, are of limite eening of a library of over 600 furanou This feasibility project willexplore the ring manufacture, analogues will be of . The efficacy and durability of the ar overs a range of applications across d	ation products areconstantly ch ph anti-microbials such as silver ed efficacy on biofilms, and also ne derived lactams has reveale application of these as anti-bio covalently and non-covalently b atifouling coating onnonwoven p urable nonwoven market segme	allenged by microbial and quaternary ammonium o present a risk of dvariants that disrupt quorum film coatings on nonwoven ound within the matrices, orat products will be explored and ents will be assessed.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Adtec Europe Ltd Royal Hampshire Hospital NHS Trust Salford Royal Hospital NHS Foundation Trust	Efficacy on nonthermal gas plasma on sub-clinical wound infections (biofilms) in patients with diabetic ulcers	£100,000	£75,000
Project description - provided by applicants			

Project description - provided by applicants

There is a need for support in the management of biofilms, although there is a growing interest in infectionmanagement, there is limited comparative information regarding wound care products and their efficacy onestablished biofilms. We believe non-thermal gas plasma (NTGP) has the potential to not only enable thehealing of chronic wounds that are stalled by sub-clinical wound infection (biofilm) but accelerate healing time. The intention of this investigation is to generate data that can be used as a guide by clinicians in themanagement of chronic wound infections. We believe this study has the potential to provide a significantadvancement in optimising chronic wound management and could be extended to other potential applicationssuch as treating biofouling in distribution pipes found in the food and water industries.Lead Industrial partner is Adtec Europe Ltd, with support from Mr Keith Cutting, Dr Paul Chadwick ConsultantPodiatrist, Ms Samantha Haycocks Advanced Podiatrist at Salford Royal NHS Foundation Trust, Ms Rosie LeggPodiatrist and clinical/academic partner Dr Matthew Dryden at the Royal Hampshire Hospital.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Procter & Gamble Technical Centres Ltd	New materials for managing	£99,281	£64,640
University of Birmingham	biofilms (NEMAB)		
Project description - provided by applica	ints		
The presence of biofilms in manufacturing can a (microbially induced corrosion) and an ongoing c results in a cost to the environment, through wast health. This project looks to evaluate new materia cleanability of manufacturing processes. If the pr improving the efficiency of delivering qualityprode	ct as a source of product contaminat ost to manufacturingcompanies throu e disposal, energy costs and water u als which can be used in manufacturi oject is successful, we would look to ucts to the UK's consumers.	ion, resulting in persistentquality ugh ensuring their absence and usage, and in the worst cases ca ng to minimise the presence off improve the environmental foot	y issues, equipment failure I removal. Ultimately, this an impact on consumer biofilms and improve the print of manufacturing, while

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Process Instruments (UK) Ltd	Biofilm Activity Analyser for	£89,786	£74,561
University of Warwick	Healthcare Applications		
Project description - provided by applica	ints		
Biofilm formation associated with water storage units in the healthcare industry is a serious issue in e.g. dentalhealthcare and renal dialysis, due potential bacterial infections. Biofilm build-up in the non-disposable plasticpipes connecting dental water systems and dialysis catheters, in particular, are a cause for increasing concernamongst healthcare professionals. Current monitoring techniques required as part of dental and dialysisguidelines do not provide continuous assessment of biofilm activity. Instead, monitoring is based on labtechniques, or dip-stick kits, whic can take many days to complete. We aim to investigate the feasibility of new innovative technology based around biocompatible diamond electrochemical sensors, which can beminiaturised and placed directly in the appropriate tubing. The sensor will provide real-time, continuousfeedback on biofilm growth, thus immediately informing on "unsafe" biofilm levels and recommending biocidetreatment procedures. <i>A</i> the diamond sensor is chemically resistant long term placement is possible. Thisfeasibility study will be carried out between the SME Process Instruments and the University of Warwick.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
5D Health Protection Group Ltd	An Anti-Biofilm Synergistic	£92,511	£72,064
University of Liverpool	Framework for Treating Chronic Wounds		
Project description - provided by applica	ints		
This project is a collaboration between the 5D He research and development collaboration will enal platforms for enhancing clinicaloutcome. One imp have been shown to now contain biofilms. Many used antimicrobial interventions. Furthermore the will involve the developmentof a framework that i hospital costs. Presently such technology does n technolgies that presently do not deliver to the ex-	ealth Protection Group Ltd and the U ole the development of the next gene portant area for use of this technolog complex biofilms found in non-healin ese interventionsare often overused a nvolves the intelligent triggered relea ot exist in the market so this innovation opectations required for biofilm managed	niversity of LiverpoolClinical En ration antibiofilm technologies t gy would be woundcare conside g and infectedchronic wounds a and have no enhanced clinical k ase of synergistic agents for ma ion will create thefirst world lead gement in non-healing and infec	gineering Department. The hat can be applied to medical ring now that chronicwounds are recalcitrant to presently benefit. In addition the project ximum impact andreduced ding prototypes and advanced cted chronic wounds.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Unilever UK Central Resources Ltd	Real time visualisation & modelling	£99,774	£74,805
Manchester Metropolitan University	of biofilm inhibition by lactam		
Project description - provided by applica	ants		
Beyond removal of dirt, home and personal care hygiene benefits in line with Unilever's Sustainab limited efficacy on established biofilms. Thescree sensingand biofilm growth in model environments applications via rational modification of existing p for solubility, enhancing the 'active site'functional andbiofilms. A focused library of around 10 nove real biofilms on a range of home and industrial su	formulations such as laundry deterge le Living Plan. These benefitsare cur ening of a library of over 600 furanone s. This feasibility project aims to enha- principal analogues. Possibleroutes o ity, and grafting complex polymeric la l analogues will be constructed, synth urfaces. The platformopportunity of ir	ents, kitchen and bathroomclea rently delivered by chemical an e-derived lactams has revealed ance the bioavailability andeffic f derivatisation will range from i actam-containing materials for t nesised, and their anti-biofilmef mproved lactams in home care	ners aim to deliver health and timicrobials which have a variants that disrupt quorum acy of lactams in home care ntroduction of charged groups argeted delivery to surfaces ficacy will be explored against will be assessed.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
The PJH Partnership Ltd	Investigating the use of SCO2 to impregnate medical materials for the prevention of microbial biofilms	£60,935	£42,654
Project description - provided by applica	ants		
The PJH Partnership Ltd have developed supercritical technology that when used with an anti-bacterial dopant, may prevent the formation of biofilms on medical device materials. Through a series of experiments andindustry engagement, PJH will undertake a 10-month programme of work to validate process efficiencies andperformance, in terms of the depth and volume of deposition, effective dispersion, dopant characterisation, and material evaluation and economic assessments. This approach draws upon the impregnable performanceof supercritical CO and patented technology and test methodologies. Test materials will include industryapproved implant devices, from which ongoing medical trials are scheduled to confirm anti-bacterial effects forbiofilm prevention. Assessment across plastic and metal materials will determine the scope of use, with widerapplications in the healthcare industry. Following this 10-month study, medical trials will be undertaken priorto commercialisation, envisaged 2018.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
International Paint Ltd	Measuring predictors of drag	£99,388	£73,685
University of Southampton	penalty of ship-fouling biofilms		
Project description - provided by application	ants		
Biofilm fouling on ships leads to costly drag pena "slime". This project explores the feasibility of usi thus more sophisticatedmetrics of coating perform biofilm mechanics experts at the Univeristy of So measurement of (i) biofilm drag and (ii)mechanic teams will compile the first datasetof biofilm drag methods and broader knowledge of biofilm proper modelling, and fundamental materials science.	alties, and the marine coatings indust ing marine foulingbiofilm mechanical mance than the current standard. Bio puthampton will partner to develop an al/physical propertiesof intact, immer penalties with respect to the mecha erties and drag will directly benefit co	ry seeks to developtechnologie and physical properties as prec ofouling and coatings experts at id validateinnovative methods a rsed biofilms on marine coating nical/physical properties of thes atings research anddevelopmen	s that will eliminate or reduce dictors of associated drag, and InternationalPaint Ltd. and apparatuses for s. With these methods, the compliant materials. Thetest nt, product performance

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Bioquell UK Ltd	Evaluating the efficacy of H2O2 vapour against biofilms formed by multi-dru resiatnt organisms (MDROs)	£51,337	£30,802
Project description - provided by applica	ants		
The project aims to evaluate the efficacy of Bioquell's 35% hydrogen peroxide vapour (HPV) technology againstsingle and multi-species biofilms, produced by multi-drug resistant organisms (MDROs) associated with hospitalacquired infection. Recent evidence shows that biofilms can survive in excess of 12 months on surfaces withinhospital rooms, even after terminal cleaning with bleach. It is believed that these biofilms act as reservoirs forinfection, with the potential to contaminate patients who come into contact with them. Bioquell is working inconjunction with University of Southampton.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
MOFgen Ltd	Biofilm management in wound healing using Metal Organic Frameworks (MOFs)	£99,300	£69,510
Project description - provided by applica	ants		
This project aims to explore the feasibility of usin antimicrobial metal ions and nitric oxide (NO) gas increase healing rates (NO is bothantimicrobial a	ng a new class of chemical compoun s for the wound managementmarket and a wound healing promoter).	d called Metal OrganicFramewo . The purpose is to prevent biofi	orks (MOFs) to deliver

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Clear Water Revival Ltd University of the West of England	Management and use of beneficial bacterial biofilms to control aquatic pathogens, for reliable chemical- free sanitisation of swimming pools	£99,821	£80,422
Preject description - provided by explicants			

Project description - provided by applicants

The swimming pool filtration market (worth 3.2bn) currently lacks chemical-free alternatives despitecustomers' demands of healthier, easier and cheaper solutions to pool water treatment. This project helps tofully realise the mass market potential for natural bio-filter based water treatment technology, throughinnovative and robust scientific research and development into aquatic pathogen behaviour and control usingbio-films. Project Objectives: Determine how our biofilms reduce levels of waterborne pathogens; ascertainwhether bio-films housed within a bio-filter allow re-introduction of pathogens in water; develop optimalhabitats & management of biofilms to maximise pathogen removal; & quantify pathogen survival rates on full-scale filtration models. The invaluable knowledge gained during the project will enable a set of optimisedoperational parameters (eg: optimal PH/ flow rates) and substrate properties (eg pore size, depth), whichmaximise the efficiency, repeatability and reliability of biofilm performance (w.r.t. pathogen control) for real-world conditions.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
BioFilm Solutions Ltd	A feasibility study to determine the effectiveness of a novel polymer coating in reducing biofilm formation within beer dispense systems.	£85,285	£59,699

Project description - provided by applicants

Biofilm Solutions is a micro company created to exploit a novel method of reducing biofilm formation withinbeer dispense systems. We have been granted exclusive licensing rights to explore the potential applications andbenefits of this innovative technology. A recent study with our research partner demonstrated a significant reduction in the build-up of biofilm on the inner surface of a beer dispense line using our product. The aim of this project is to assess whether this innovative technology can effectively control biofilm formation in beer linesin a dynamic, simulated pub environment. Keeping beer lines clear of biofilms wastes over 500M litres of water and 70M pints in the UK alone. Our product could significantly reduce the frequency of line cleaning resulting inless wastage of beer, water and a reduction in chemical cleaner usage. It would also improve the maintenance ofbeer quality. A successful outcome would prove commercial viability and demonstrate major benefits for themanufacturer, the proprietor, the consumer and the environment.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Medtrade Products Ltd	Biofilm Combatting Technology for Wound Care Application	£98,939	£59,363
Project description - provided by applica	ants		
This project is focused on Wound Care where 60 social and economic impact. It has a negative eff and resource. This novel technologydestroys bio usingcomplex biofilm models that mimic chronic	0% of chronic non-healing wounds po fect on patient quality of liferesulting film formation. The objective is to con wound scenarios and to determine it	ossess micro-organisms in abio in a large impact on the health mpletely challenge the biofilm c 's optimum capability.	film form causing a significant care system in terms of cost ombatting technology

Note: you can see all Innovate UK-funded projects here https://www.gov.uk/government/publications/innovate-uk-funded-projects Use the Competition Code given above to search for this competition's results

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Participant organisation names	Project title	Proposed project costs	Proposed project grant	
NCIMB Ltd	Neutralising the harmful effects of	£99,705	£66,813	
Probiotics International Ltd	dental biofilms by bacterial replacement therapy			
Project description - provided by applica	ants			
Project description - provided by applicants Dental caries is a widespread oral disease that is costly for health services to treat, and causes pain and loss ofteeth to those affected. It is caused by production of acid by oral bacteria in biofilms on the teeth and gumscommonly known as dental plaque. Brushing teeth can reduce this problem but many people do not do soregularly or thoroughly. This project will investigate the application of bacterial replacement therapy in theform of a lozenge containing a suitable probiotic strain to help develop an anti-caries environment within thedental plaque biofilm. The project will combine the strengths of two UK SMEs, a world class culture collectioncentre and a leading probiotics manufacturer. The project will investigate strains held within the NCIMB culturecollection for their potential to create novel biofilms to combat dental caries				

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Anacail Ltd	Biofilm management in Food Processing Environments	£97,898	£68,529
Project description - provided by applica	ants	•	
Ozone is one of the most powerful biocidal agent ozone. Anacail are currently developing the techn potential application in a linked area:reservoirs of anumber of pathogens and has shown the poten factory environments, a prototype for destruction contamination.	ts known to science: bacteria, spores nology for the food packagingindustr f contaminated liquid (drains) in food tial for ozone to treat biofilms. With I or growth inhibitionof Listeria in food	s, viruses and biofilms areall sur y through the treatment of seale I processing plants. Parallel wor nnovateUK supportAnacail will o d factory drain wells thus reduci	sceptible to destruction by ed packs. The technologyhas k in assessing ozone on develop and evaluate in real ng infection spread and cross-

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Varicon Aqua Solutions Ltd	Development of a Novel	£107,846	£69,892
Plymouth Marine Laboratory	Membrane Photobioreactor, for		
Durham University	cultivation of Haematococcus pluvialis as Biofilm		
Project description - provided by applicants			
Microalgae have the potential to produce an array of compounds in a manner more sustainable than theconventional petrochemical industry. This project aims to explore a novel and innovative method to producealgal biomass and bio-products at lower costs than conventional production systems. Namely we aim toinvestigate the commercial opportunity of using a proprietary membrane photobioreactor (MBR) to produce high value pigment astaxanthin from a biofilm of the microalgal strain Haematococcus pluvialis.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Gama Healthcare Ltd	The management and use of	£89,230	£69,557
University of Huddersfield	biofilms		
Project description - provided by applica	ants		
Products derived from this project will enhance p infections. Dealing with biofilm protected organis Novel formulations proposed inthis project poten	atient safety and aim to reduce the i ms is seen as animportant step in in tially offer a significant step in this re	ncidence of small surgicalsite in proving clinical outcomes in a r spect.	fections and catheter related number of medical cases.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
NCIMB Ltd	Management and control of biofilms in the oil and gas industry	£85,176	£59,623
Project description - provided by applica	ants		
Microbial biofilms can cause significant economic contribution to corrosion of concrete and metal s biocides which are expensiveand can lead to envalternative for biofilm control in oilfield systems. A industrial situations. This project will evaluate the	c and environmental issues in oilfield surfaces. Currentmethods for the con- vironmental contamination. This proje Although phage technology is not nov application ofphage technology for l	systems from reductionin flow trol of biofilms in these situation ect will evaluate the application vel in itself itsapplication it has r biocontrol for assets in the UK N	rates, souring of crude oil and is include the use of chemical of bacteriophage as anatural not been used actively in North Sea continental shelf.

Note: you can see all Innovate UK-funded projects here