

A microscopic view of cells, likely bacteria or yeast, showing their internal structures and cell walls. The image is in shades of blue and cyan, with a red curved overlay at the top right.

**Dehns**

Patent and Trade Mark Attorneys

Patent Group:  
Life Sciences  
and Biotechnology



## Hanna Dzieglewska

### Partner and Head of Group

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#### Professional Experience

Hanna joined the firm in 1987 and became a partner in 1995. After completing her biochemistry degree specialising in neurochemistry, Hanna went on to obtain a PhD in Biochemistry, focusing primarily on enzymology, protein purification, and microbial physiology. Hanna is Head of the Biotechnology team.

Hanna's clients include SMEs or sole inventors, as well as larger companies. Her work includes all aspects of patent portfolio management and development including evaluating inventions for patentability, drafting patent specifications, patent prosecution, including EPO and foreign patent prosecution, and opposition work at the EPO. Hanna's work also includes advising clients in a number of areas including patent filing strategies, freedom to operate, evaluating patent portfolios and due diligence.

Since joining the firm, Hanna has worked in many technical areas of biochemistry/biotechnology including immunology, diagnostic assays, antibodies, recombinant protein expression, transgenic plants and animals, vaccines, biological purifications and separations, nucleic acid manipulations and assays (including isolation, sequencing, amplification, detection, genomic and expression analysis), cells (e.g. cell culture, isolation, manipulation, assays) and also in related areas such as medical uses, peptide and other therapeutics.

#### EDUCATION

BSc Hons (First Class),  
Imperial College, Biochemistry  
PhD, University of Kent  
*Thesis title: Biochemistry, focusing primarily on enzymology, protein purification, and microbia physiology*

#### PROFESSIONAL QUALIFICATIONS

Chartered Patent Attorney  
European Patent Attorney  
Certificate in IP Law,  
Queen Mary University of London



## Elizabeth Jones

### Managing Partner

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#### Professional Experience

Elizabeth joined Dehns in 1993 after obtaining a degree in Chemistry / Biochemistry from the University of Cape Town. She became a partner in 2001. She is a senior member of the Life Sciences and Biotechnology group and is also Dehns' Managing Partner.

Elizabeth's clients include both sole inventors and small companies as well as large multi-nationals. She provides a range of services including patentability assessments, drafting, filing and prosecuting patent applications, defending and opposing granted patents and providing advice on aspects such as due diligence, infringement, validity and freedom to practice.

Elizabeth has broad experience in the general fields of biochemistry and biotechnology, including genomics, proteomics, immunology, virology and microbiology, particularly in relation to molecular biology based inventions (such as recombinant products, transgenic plants and animals, genomic therapeutics and diagnostics), screening methods, purification protocols, diagnostic assays and therapeutic and prophylactic inventions.

#### EDUCATION

Chemistry / Biochemistry  
(Distinction in Chemistry)  
BSc Hons, University of  
Cape Town, Biochemistry  
MSc, University of Cape Town,  
Crystallographic determination  
of cholic acid:alcohol structures",  
(Awarded with Distinction)  
PhD, Open University  
*Thesis title: "Cell signalling  
pathways of IL-1 and TNF"*

#### PROFESSIONAL QUALIFICATIONS

Chartered Patent Attorney  
European Patent Attorney  
Certificate in IP Law,  
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## Rebecca Gardner

### Partner

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#### Professional Experience

Rebecca joined the firm in 1994, having graduated with an Honours Degree in Biochemistry from Bristol University, and became a Partner in 2002.

Her practice is focused on portfolio development for SME's, drafting and prosecuting their patent applications as well as advising on related transactions and commercial strategy. She also handles contentious matters, defending granted rights in EPO proceedings and advising on infringement of those patents; on the other side of the fence, she advises on the monitoring and impact on her client's activities of third party rights. Experience obtained through worldwide prosecution of numerous patent families enables her to advise on filing and examination strategies and draft specifications with multiple jurisdictions in mind.

Rebecca has been involved with innovations in the fields of pharmaceutical and veterinary science, agrosience, human and animal nutrition, cosmetics, microbiology and virology and research and analytical tools. More specifically, she has drafted and prosecuted patent applications for newly identified genes and proteins, for techniques of nucleic acid isolation, manipulation and characterisation, to novel medical uses of known compounds and developments in disease diagnosis, to wood preservative formulations, therapeutically relevant peptides, genetically modified microorganisms and modified viruses and stem cell technology.

#### EDUCATION

BSc Hons, University of Bristol,  
Biochemistry including options in  
Molecular Genetics and Physiology

#### PROFESSIONAL QUALIFICATIONS

Chartered Patent Attorney

European Patent Attorney

Certificate in IP Law,  
Queen Mary University of London



## Philip Webber

### Partner

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#### Professional Experience

Philip joined the firm in 1992 after obtaining a degree in Natural Sciences (Genetics) from Cambridge University and a PhD in molecular biology from Warwick University. He was made partner in 2005.

Philip's work is largely with start-ups, SMEs and universities with inventions in the pharmaceutical or biotechnological fields. He has over 25 years' experience in prosecuting patent applications in all areas of molecular biology and biochemistry including genomics, proteomics, recombinant DNA and protein products, biosimilars, transgenic plants and animals, stem cells, diagnostics assays, virology and vaccines.

He has particular expertise in antibody patents having worked one day/ week as an "in-house" patent attorney with a therapeutic antibody company for two years. During that time, he helped to develop their world-wide IP strategy for protecting their newly-developed targets, monoclonals and ADCs.

Philip was a member of the Life Sciences Committee of the UK Chartered Institute of Patent Attorneys (CIPA) from 2001-2016. He often gives presentations to university students and academics, as well as training junior patent attorneys.

He has spoken at many European and UK conferences and on BBC Radio about the patenting of biological and biotechnological inventions, and has published a number of papers in this area. More recently, he has been involved in the patenting of a number of CRISPR/Cas9-based inventions and recombinant vaccines.

#### EDUCATION

MA, University of Cambridge,  
Natural Sciences (Genetics)

PhD, Warwick University  
*Thesis title: Analysis of the  
regulation of the Xenopus borealis  
N. Cadherin promoter*

#### PROFESSIONAL QUALIFICATIONS

Chartered Patent Attorney

European Patent Attorney

Certificate in IP Law,  
Queen Mary University of London



## Deborah Owen

### Partner

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#### Professional Experience

Deborah joined the firm in 1996 having graduated from the University of Cambridge in 1992 with an Honours Degree in Natural Sciences (Zoology). She carried out post-graduate research in the field of molecular and cell biology of breast cancer at the Imperial Cancer Research Fund (now CRC-UK) in London, which led to the award of a PhD by University College London. Deborah became a Partner of the firm in 2009.

Deborah's clients include small- to medium-sized companies, as well as larger companies. A major proportion of her work is original patent drafting and advice work for direct clients.

She provides a range of services including patentability assessments, drafting, filing and prosecuting patent applications and defending and opposing granted patents. Deborah also advises clients in a number of other relevant areas including infringement and validity, freedom to operate, evaluating patent portfolios and due diligence.

Deborah handles patent work in many areas of biotechnology and biochemistry including genomics, proteomics, recombinant nucleic acid and protein products, research tools, screening methods, transgenic plants and animals, diagnostic, molecular and environmental assays, microbiology, immunology and antibodies, virology and vaccines.

#### EDUCATION

MA, University of Cambridge,  
Natural Sciences (Zoology)

PhD University of London  
(research carried out at the Imperial  
Cancer Research Fund, London)  
*Thesis title: In vitro morphogenesis  
of human mammary epithelial cells*

#### PROFESSIONAL QUALIFICATIONS

Chartered Patent Attorney

European Patent Attorney

Certificate in IP Law,  
Queen Mary University of London



## Daniel Rowe

### Senior Associate

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#### Professional Experience

Daniel joined the firm in 2001 after completing a BSc and then a PhD, both from the University of Bristol. He became an Associate in 2008 and Senior Associate in 2019.

Daniel's client base ranges from small biotech start ups and university spinouts/technology transfer offices to multinational biotech/pharma corporations, with particular experience assisting UK, US and Scandinavian start ups protect and exploit their IP and assess their freedom to operate in their chosen fields.

Daniel's professional expertise extends to drafting and prosecution of patent applications and the opposition of patents (offensive and defensive), including appeal work. His expertise further extends to providing advice to clients on all aspects of patent law in this technical area, including patentability, infringement and validity analyses and commercially- focused assistance with the cost-effective development and management of global patent portfolios.

The subject matter Daniel handles comes from across the full spectrum of industrial and medical biotechnology. Within the health sector his practice has particular focus on molecular medicine; molecular diagnostics, biomarkers and personalised medicine; pharmaceuticals (human and veterinary); advanced drug delivery; and wound healing products. His industrial practice has particular focus on protein purification from blood products and advanced cell-factories for the industrial production of proteins. He has also handled cases directed to microbiological and non-microbiological processes for the production of poly/oligosaccharides and engineered enzymes for removing contaminating nucleic acids from solutions.

#### EDUCATION

BSc Hons (First Class),  
University of Bristol, Biochemistry

PhD, University of Bristol  
*Thesis title: The intracellular  
mechanisms of thapsigargin-induced  
inhibition of human vascular smooth  
muscle cell proliferation*

#### PROFESSIONAL QUALIFICATIONS

Chartered Patent Attorney

European Patent Attorney

Certificate in IP Law,  
Queen Mary University of London



## Phillip Price

### Senior Associate

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#### Professional Experience

Phillip joined the firm in 2006 after graduating from the University of Oxford with a Masters degree in Molecular and Cellular Biochemistry. His studies included research into DNA repair signalling pathways. Phillip became Associate of the firm in 2012, and Senior Associate in 2019.

Phillip's clients include both large multinational companies and SMEs with various sizes of patent portfolios. His work includes evaluating inventions for patentability, drafting patent specifications and all aspects of patent prosecution, including worldwide prosecution of patent families. Phillip's work also includes advising clients in a number of areas including freedom to operate, monitoring of competitor patent activity, infringement and portfolio management.

Phillip handles work in various biotechnology, medical, veterinary and cosmetic fields. Specific examples include human and veterinary uses of known compounds, vaccine adjuvants, nucleic acid design and manipulation methods, screening methods, diagnostic assays, research tools including molecular devices, synthetic biology, biofuel production, animal nutrition and nutraceuticals.

#### EDUCATION

MBiochem, University of Oxford,  
Biochemistry (Molecular and Cellular)

#### PROFESSIONAL QUALIFICATIONS

Chartered Patent Attorney

European Patent Attorney

Certificate in IP Law,  
Brunel University



## Christopher Wilkins

### Senior Associate

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#### Professional Experience

Christopher joined the firm in 2007 after working as a Fellow of Queens' College at the University of Cambridge, where he was conducted research in plant development and lectured in Plant and Microbial Sciences. He became a Senior Associate of the firm in 2019.

Prior to his post-doctoral research, Christopher graduated from the University of Durham in 2000 with an Honours degree in Molecular Biology and Biochemistry. He then moved to the Department of Plant Sciences at the University of Cambridge where he was awarded a PhD in 2004 for research into the perception of the plant hormone cytokinin. Consequently he has practical experience and expertise across a broad spectrum of molecular biology and biochemistry fields.

Christopher's clients include both large multinational companies and SMEs with various sizes of patent portfolios. His work includes evaluating inventions for patentability, drafting patent specifications and all aspects of patent prosecution, including worldwide prosecution of patent families. He also provides infringement and validity advice, works in the opposition of granted patents, and assists with the development and management of patent portfolios.

Christopher handles work across the range of biotechnology, medical and cosmetic fields. He has handled applications relating to: antibodies; artificial immune systems; pharmaceuticals, including peptide and protein based drugs; new medical uses of known biomolecules; virology and vaccination; newly identified genes and proteins and isolation methods; analyte detection methods and systems; genetically modified plants, animals and microorganisms; diagnostic assays; cosmetics; array technology; biofuel production; nucleic acid sequencing, amplification and identification; and molecular biology techniques.

#### EDUCATION

BSc Hons, University of Durham,  
Molecular Biology and Biochemistry

PhD, University of Cambridge,  
Plant Molecular Biology

*Thesis title: Analysis of genes  
regulating the plant perception  
of cytokinin*

#### PROFESSIONAL QUALIFICATIONS

Chartered Patent Attorney

European Patent Attorney

Certificate in IP Law,  
Queen Mary University of London



## Adam Yates

### Associate

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#### Professional Experience

Adam joined the firm in 2008 after graduating from the University of Birmingham in 2003 with a First Class Honours degree in Biological Sciences. In 2007 he was awarded a PhD for research into transcription factors in embryonic stem cells, undertaken at the Medical Research Council's Institute for Stem Cell Research at the University of Edinburgh.

Adam works with large multinational companies and SMEs and he has experience handling large patent portfolios with applications in a wide range of territories worldwide. His work includes drafting new patent applications, handling prosecution of patent application worldwide and providing opinions on the patentability of new inventions.

Adam works in a wide variety of subject-matter in the life sciences space, with particular experience and interest in antibody patenting. Other areas of expertise include: pharmaceuticals, biofuel production, genetically modified microorganisms, enzymes, plant biology, diagnostic methods, medical uses of known compounds and antimicrobial compounds.

#### EDUCATION

BSc Hons (First Class) University of Birmingham, Biological Sciences

PhD, University of Edinburgh *Thesis title: Transcription Factors in Embryonic Stem Cells*

#### PROFESSIONAL QUALIFICATIONS

Chartered Patent Attorney

European Patent Attorney

Certificate in IP Law,  
Brunel University



## Edward Couchman

### Technical Assistant

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#### Professional Experience

Edward graduated from the University of Oxford in 2010 with a First Class Masters degree in Molecular and Cellular Biochemistry. He then undertook a PhD studentship at Imperial College London, being awarded a Master of Research in Biochemical Research in 2012 and then completing his PhD research into the molecular biology of *Clostridium difficile* in 2015. He joined Dehns in 2015.

Edward works with a variety of clients types, from universities to start-ups, spin-outs and SMEs all the way through to multinational corporations. He provides patentability advice, drafts new patent applications, and prosecutes applications to grant before the European Patent Office; he also handles international patent portfolios. Additionally he has experience of handling both offensive and defensive oppositions before the European Patent Office.

Edward's scientific expertise involves handling patents in a wide variety of biotechnology and pharmaceutical fields, including: therapeutic inventions (small molecules, immunotherapies, treatments for cancer, infectious diseases, etc.), vaccines, diagnostic methods, recombinant plants, biotechnology processes (e.g. biofuel production) and industrial enzymes.

#### EDUCATION

MBiochem (First Class), University of Oxford, Biochemistry (Molecular and Cellular)

MRes (Distinction), Imperial College London, Biochemical Research

PhD, Imperial College London  
*Thesis title: Investigating the Type IV Pili of Clostridium difficile and Clostridium sordellii*

#### PROFESSIONAL QUALIFICATIONS

Certificate in IP Law,  
Brunel University



## Alex Wilson

### Technical Assistant

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#### Professional Experience

Alex joined the firm in 2016 after graduating from the University of Oxford with a Masters degree in Molecular and Cellular Biochemistry, which included modules in Advanced Structural Biology and Chromosome Biology. During his studies, Alex also completed a research project investigating newly-discovered cell division proteins in parasites responsible for causing sleeping sickness.

Alex's clients include both large multinational companies and SMEs, and his work includes all aspects of patent prosecution. Additionally, he provides advice on freedom to operate and opposition of granted patents.

Alex's work covers a wide range of biotechnology, medical and chemical fields. He has handled applications relating to: antibodies; pharmaceuticals; new medical uses of known biomolecules; genetically modified plants, animals and microorganisms; diagnostic assays; polymers; biofuel production; nucleic acid amplification and identification; and molecular biology techniques.

#### EDUCATION

MBiochem, University of Oxford,  
Biochemistry (Molecular and Cellular)

#### PROFESSIONAL QUALIFICATIONS

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## Duke Quinton

### Technical Assistant

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#### Professional Experience

Duke graduated from St Hilda's College, Oxford in 2017 with an Integrated Master's degree in Biochemistry (MBiochem), and joined Dehns later that year. During his final academic year, he worked in the Kleanthous group in Oxford, investigating the translocation mechanisms of protein antibiotics across the outer membrane of Escherichia coli.

Duke works with a variety of clients, including SMEs, universities and multinational companies. He handles prosecution of patent applications in Europe, and has experience of prosecution in a number of other jurisdictions including Canada, China, Japan, the UK and the US. He also assists with client work outside of prosecution, including freedom to operate analysis and patent application drafting.

Duke has gained experience working on patent applications relating to a wide variety of technologies in the life sciences sphere, including antibodies, anti-cancer therapies, genome editing techniques, diagnostic techniques, fish farming and pharmaceuticals.

#### EDUCATION

MBiochem, University of Oxford,  
Biochemistry (Molecular and Cellular)

#### PROFESSIONAL QUALIFICATIONS

Certificate in IP Law,  
Queen Mary University of London



## **Callum Matthews**

### Technical Assistant

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#### **Professional Experience**

Callum joined Dehns in 2019 after graduating from the University of Oxford with a First Class MBiochem degree in Molecular and Cellular Biochemistry. During his final academic year, Callum carried out a research project which involved using Molecular Dynamics Simulations to investigate lipoprotein trafficking in bacteria.

#### **EDUCATION**

MBiochem (First Class),  
University of Oxford, Biochemistry  
(Molecular and Cellular)

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**Bristol**

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**Sandwich**

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