Professor. Tony Velkov
Pharmacology
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Biography

One of the most outstanding accomplishments of modern medicine was the development of antibiotics for treatment of bacterial infections that were widely fatal. However, due to a marked decline in discovery of new antibiotics over the past few decades, the world is now facing an enormous threat from the emergence of bacteria that are resistant to all available antibiotics. A/Prof Velkov is a world leading expert in several aspects of antibiotic pharmacology, including their mode of action, chemistry, structure-activity relationships and toxicity. His advocacy for commercialization and stewardship of antibiotics is commendable, together with Professor Jian Li he established and co-leads The Victorian Antimicrobial Discovery Group; and co-founded the Global Initiative on Antimicrobial Computational Pharmacology. He has extensive international industry experience, having been awarded two NHMRC industry fellowships and a REDI MPTConnect Industry Fellowship. He was recognised by the NHMRC with Excellence Awards in 2011 and again in 2015. The significant impact of his anti-infective research was highlighted by the NHMRC through a 'Ten of the Best' award for his novel lipopeptide discovery project grant. He has a unique setup in his laboratory for developing novel lipopeptide and depsi-pepetide antibiotics targeting multi-resistant superbugs (from drug design, chemistry synthesis, in vitro models to in vivo safety and efficacy evaluations). A/Prof Velkov has published >240 papers on antibiotic drug discovery, PK/PD, pharmacology and resistance. He is a key opinion leader in my field ranked first among 14,673 experts in polymyxin chemistry research globally expertscape.com/ex/polymyxin. A/Velkov serves on Editorial boards (Br J Pharmacol, Molecules, Vaccine, J Adv Science) and a regular invited reviewer for prominent international journals (e.g. Nat Med). He is a serving member of several professional societies, including American Society for Microbiology, Australian Society for Biochemistry and Molecular Biology, Australian Pharmaceutical Science Association, Australian Thoracic Society. A/Prof Velkov serves as a regular reviewer of grant applications for various government bodies including the National Institute of Health (US), National Health and Medical Research Council, Australian Research Council, New Zealand Marsden Fund, the European Society of Clinical Microbiology and Infectious Diseases, Wellcome Trust (UK), Research Councils UK (RCUK), the Netherlands Organisation for Scientific Research, French National Research Agency and Israel Science Foundation. His internationally leading research is underpinned by an exceptional track record in advancing projects to clinical development and commercialisation of intellectual property through his extensive academic-industry partnerships. A/Prof Velkov's international leadership is also demonstrated by significant continuous funding support from major Australian and international granting bodies. Since 2004 he has been awarded 25 grants (14 as lead) by the USA NIH ($17M, 6 R01 projects), USA Department of Defence ($2M), and Australian NHMRC/ARC ($8.2M). As NIH funds are extremely competitive, the multiple R01 awards to Australian researcher are an exceptional accomplishment and have immensely enhanced Australia's reputation and international standing. His innovative research is encompassed by complementary and integrated streams that encompass the 'lab bench to bedside' doctrine and efficiently translate his multidisciplinary research to clinical practice and pharmaceutical products.

Employment

Professor (Research)
Pharmacology
MONASH UNIVERSITY
13 Jun 2022 → present

Editor, British Journal of Pharmacology
John Wiley & Sons Limited (United Kingdom)
Oxford, United Kingdom

Adjunct, Principle Research Fellow, Department of Biochemistry and Pharmnacology
University of Melbourne
Melbourne, Australia

Research outputs

A Comparative Review of the Pharmacology of Dalbavancin and Oritavancin for Gram-Positive Infections: Birds of a Feather or Apples and Oranges?

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Azad, M. A. K., Finnin, B. A. L., Poudyal, A., Davis, K. E., Li, J., Hill, P. A., Nation, R. L., Velkov, T. & Li, J., 2013, In: Antimicrobial Agents and Chemotherapy. 57, 9, p. 4329 - 4335 7 p.

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McCoy, L. S., Roberts, K. D., Nation, R. L., Thompson, P., Velkov, T., Li, J. & Tor, Y., 2013, In: ChemBioChem. 14, 16, p. 2083 - 2086 4 p.

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Baker, M. A., Weinberg, A. S., Hetherington, L., Velkov, T. & Aitken, R. J., 2013, In: Metabolomics. 9, 3, p. 708 - 721 14 p.

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The antigenic architecture of the hemagglutinin of influenza H5N1 viruses
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Velkov, T., 2013, In: Journal of Molecular Recognition. 26, 10, p. 439 - 449 11 p.

Analysis of phosphopeptide changes as spermatozoa acquire functional competence in the epididymis demonstrates changes in the post-translational modification of izumo1
Baker, M. A., Hetherington, L., Weinberg, A. S., Naumovski, N., Velkov, T., Pelzing, M., Dolman, S., Condina, M. R. & Aitken, R. J., 2012, In: Journal of Proteome Research. 11, 11, p. 5252 - 5264 13 p.

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Huang, J. X., Cooper, M. A., Baker, M. A., Azad, M. A. K., Nation, R. L., Li, J. & Velkov, T., 2012, In: Journal of Molecular Recognition. 25, 12, p. 642 - 656 15 p.

Molecular characterization of lipopolysaccharide binding to human alpha-1-acid glycoprotein
Huang, J. X., Azad, M. A. K., Yuriev, E., Baker, M. A., Nation, R. L., Li, J., Cooper, M. A. & Velkov, T., 2012, In: Journal of Lipids. 2012, p. 1 - 15 15 p.

Structure-activity relationships for the binding of polymyxins with human alpha-1-acid glycoprotein
Azad, M. A. K., Huang, J. X., Cooper, M. A., Roberts, K. D., Thompson, P., Nation, R. L., Li, J. & Velkov, T., 2012, In: Biochemical Pharmacology. 84, 3, p. 278 - 291 14 p.

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Deris, Z. Z., Yu, H., Davis, K. E., Soon, R.L.-X., Jacob, J., Ku, K. U. C., Poudyal, A., Bergen, P. J., Tsuji, B., Bulitta, J. B., Forrest, A., Paterson, D. L., Velkov, T., Li, J. & Nation, R. L., 2012, In: Antimicrobial Agents and Chemotherapy. 56, 10, p. 5103 - 5112 10 p.

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Velkov, T., Thompson, P., El-Kabbani, O., Lindh, F., Stambas, J. & Rockman, S., 2011, In: Acta Virologica. 55, 2, p. 131 - 137 7 p.

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Velkov, T., Horne, J., Scanlon, M., Capuano, B., Yuriev, E. & Lawen, A., 2011, In: Chemistry & Biology. 18, 4, p. 464 - 475 12 p.

Design, synthesis, and evaluation of a new fluorescent probe for measuring polymyxin-lipopolysaccharide binding interactions
Soon, R., Velkov, T., Chiu, F., Thompson, P., Kancharla, R., Roberts, K., Larson, I., Nation, R. & Li, J., 2011, In: Analytical Biochemistry. 409, 2, p. 273 - 283 11 p.

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Henderson, L. C., Li, J., Nation, R. L., Velkov, T. & Pfeffer, F. M., 2010, In: Chemical Communications. 46, p. 3197 - 3199 3 p.

Ligand-enhanced expression and in-cell assay of human peroxisome proliferator-activated receptor alpha ligand binding domain
Velkov, T., Rimmer, K. & Headey, S., 2010, In: Protein Expression and Purification. 70, 2, p. 260 - 269 10 p.

Self-assembly behavior of colistin and its prodrug colistin methanesulfonate: implications for solution stability and solubilization
Wallace, S. J., Li, J., Nation, R. L., Prankerd, R. J., Velkov, T. & Boyd, B. J., 2010, In: Journal of Physical Chemistry B. 114, p. 4836 - 4840 5 p.

Structure-Activity Relationships of Polymyxin Antibiotics
Velkov, T., Thompson, P., Nation, R. L. & Li, J., 2010, In: Journal of Medicinal Chemistry. 53, p. 1898 - 1916 19 p.

Thermodynamics of lipophilic drug binding to intestinal fatty acid binding protein and permeation across membranes
Velkov, T., 6 Apr 2009, In: Molecular Pharmaceutics. 6, 2, p. 557-570 14 p.

Characterization of lipophilic drug binding to rat intestinal fatty acid binding protein
Velkov, T., Hughes, M. L. R., Horne, H. J., Simpson, J. S., Porter, C. J. & Scanlon, M., 2009, In: Molecular and Cellular Biochemistry. 326, 1-2, p. 87 - 95 9 p.

Probing the fibrate binding specificity of rat liver fatty acid binding protein
Chuang, S., Velkov, T., Horne, H. J., Wielens, J., Chalmers, D. K., Porter, C. J. & Scanlon, M., 2009, In: Journal of Medicinal Chemistry. 52, 17, p. 5344 - 5355 12 p.

A protocol for the combined sub-fractionation and delipidation of lipid binding proteins using hydrophobic interaction chromatography
Velkov, T., Lim, M. L. R., Capuano, B. & Prankerd, R. J., 2008, In: Journal of Chromatography B. 867, 2, p. 238 - 246 9 p.

Characterization of the drug binding specificity of rat liver fatty acid binding protein
Chuang, S., Velkov, T., Horne, J., Porter, C. J. & Scanlon, M., 2008, In: Journal of Medicinal Chemistry. 51, 13, p. 3755 - 3764 10 p.

Ni2+-Based Immobilized Metal Ion Affinity Chromatography of Lactose Operon Repressor Protein from Escherichia Coli
Velkov, T., Jones, A. & Lim, M. L. R., 2008, In: Preparative Biochemistry & Biotechnology. 38, 4, p. 422 - 441 20 p.

Structural and biochemical characterization of the oxidoreductase NmDsbA3 from Neisseria meningitidis
Vivian, J., Scoullar, J., Robertson, A. L., Bottomley, S. P., Horne, H. J., Chin, K.-Y. Y., Wielens, J., Thompson, P., Velkov, T., Piek, S., Byres, E., Beddoe, T. C., Wilce, M. C., Kahler, C. M., Rossjohn, J. & Scanlon, M., 2008, In: Journal of Biological Chemistry. 283, 47, p. 32452 - 32461 10 p.

Examination of the role of intestinal fatty acid-binding protein in drug absorption using a parallel artificial membrane permeability assay
Velkov, T., Horne, H. J., Laguerre, A. K., Jones, E. D., Scanlon, M. & Porter, C. J., 2007, In: Chemistry & Biology. 14, 4, p. 453 - 465 13 p.

Generation of mutant leukaemia inhibitory factor (LIF)-IgG heavy chain fusion proteins as bivalent antagonists of LIF
Jazayeri, J., De Weerd, N. A., Raye, W. S., Velkov, T., Santos, L. L., Taylor, D. & Carroll, G. J., 2007, In: Journal of Immunological Methods. 323, 1, p. 1 - 10 10 p.

Probing the Flexibility of the DsbA Oxidoreductase from Vibrio cholerae-a 15N - 1H Heteronuclear NMR Relaxation Analysis of Oxidized and Reduced Forms of DsbA
Horne, H. J., d'Auvergne, E. J., Coles, M., Velkov, T., Chin, Y., Charman, W. N., Prankerd, R. J., Gooley, P. & Scanlon, M. , 2007, In: Journal of Molecular Biology. 371, 3, p. 703 - 716 14 p.

An improved purification procedure for cyclosporin synthetase
Velkov, T., Singaretnam, L. G. & Lawen, A., 2006, In: Protein Expression and Purification. 45, 2, p. 275 - 287 13 p.

An improved method for the purification of rat liver-type fatty acid binding protein from Escherichia coli
Velkov, T., Chuang, S., Prankerd, R. J., Sakellaris, H. H., Porter, C. J. H. & Scanlon, M. J., 2005, In: Protein Expression and Purification. 44, 1, p. 23 - 31 9 p.

The interaction of lipophilic drugs with intestinal fatty acid-binding protein
Velkov, T., Chuang, S., Wielens, J., Sakellaris, H. H., Charman, W. N., Porter, C. J. & Scanlon, M., 2005, In: Journal of Biological Chemistry. 280, 18, p. 17769 - 17776 8 p.

Mapping and molecular modeling of S-adenosyl-L-methionine binding site in N-methyltransferase domains of the multifunctional polypeptide cyclosporin synthetase
Velkov, T. & Lawen, A., 2003, In: Journal of Biological Chemistry. 278, 2, p. 1137 - 1148 12 p.

Non-ribosomal peptide synthetases as technological platforms for the synthesis of highly modified peptide bioeffectors - cyclosporin synthetase as a complex example
Velkov, T. & Lawen, A., 2003, In: Biotechnology Annual Review. 9, p. 151 - 197 47 p.

Photoaffinity labeling of the N-methyltransferase domains of cyclosporin synthetase
Velkov, T. & Lawen, A., 2003, In: Photochemistry and Photobiology. 77, 2, p. 129 - 137 9 p.

Mapping and molecular modeling of S-adenosyl-L-methionine binding sites in N-methyltransferase domains of the multifunctional polypeptide cyclosporin synthetase
Velkov, T. & Lawen, A., 2002, In: Journal of Biological Chemistry. 278, 2, p. 1137 - 1148 12 p.

Prizes

APP2022050 Development Grant (McDevitt) 2023 to 2025 Breaking drug resistance in community acquired bacterial pneumonia (CABP)
Velkov, T. (Recipient), 2023

ARC Mid-Career Industry Fellowship 2024 to 2027 Novel mass-scale biosynthesis: tailoring chemical logic and biosynthesis
Velkov, T. (Recipient), 2023

Australian National Health and Medical Research Council Peter Doherty Training Fellow
Velkov, T. (Recipient), 2006

CARB-X (the Combating Antibiotic-Resistant Bacteria Biopharmaceutical Accelerator) AU$2.68 million
Velkov, T. (Recipient), 2023

Deans List status in the Faculty of Science for excellent achievement
Velkov, T. (Recipient), 1996

Faculty of Pharmacy and Pharmaceutical Sciences Award for Research Impact (Economic and Social)
Velkov, T. (Recipient), 2016

Member of the American Association for the Advancement of Science
Velkov, T. (Recipient), 2004

Member of the American Protein Society
Velkov, T. (Recipient), 2007

Member of the Anti-infective Pharmacology Group of the International Society Antimicrobial Chemotherapy
Velkov, T. (Recipient), 2020

Member of the Australian Lung Foundation
Velkov, T. (Recipient), 2009

Member of the Australian Pharmaceutical Science Association
Velkov, T. (Recipient), 2006

Member of the Australian Society for Biochemistry and Molecular Biology
Velkov, T. (Recipient), 2000

Member of the Australian Thoracic Society
Velkov, T. (Recipient), 2009

Member of the Global Initiative on Antimicrobial Computational Pharmacology
Velkov, T. (Recipient), 2020

Member of the Golden Key Honours Society (Australian Chapter)
Velkov, T. (Recipient), 1998

Monash Biomedicine Discovery Institute Award for Outstanding Achievement - Industry Engagement and Commercialisation Award
Velkov, T. (Recipient), 2022

Monash Major Interdisciplinary Research (IDR) Award
Velkov, T. (Recipient), 2014

Monash University Linbrook Biochemistry Medal
Velkov, T. (Recipient), 1995

Monash University Research Fund Postdoctoral Fellowship
Velkov, T. (Recipient), 2001

NHMRC Career Development Industry Fellow Level 1
Velkov, T. (Recipient), 2011

NHMRC Career Development Industry Fellow Level 2
Velkov, T. (Recipient), 2015

NHMRC Research Excellence Award
Velkov, T. (Recipient), 2011

NHMRC Research Excellence Award
Velkov, T. (Recipient), 2015

NHMRC Ten of the Best Project Grant Award
Velkov, T. (Recipient), 2015

REDI Industry Fellowship San Diego: Novel lipopeptide antibiotics targeting extremely drug resistant 'superbugs'.
Velkov, T. (Recipient), 2022

Team Award for Research Impact [Economic and Social] (Faculty of Pharmacy and Pharmaceutical Sciences, Monash University)
Nation, R. (Recipient), Velkov, T. (Recipient), Li, J. (Recipient), Roberts, K. (Recipient) & Thompson, P. (Recipient), 2016

University of Melbourne MDHS Faculty Research Fellowship
Velkov, T. (Recipient), 2018

Vice-Chancellor's Award for Excellence in Research Engagement and Impact
Velkov, T. (Recipient), 2022

Vice-Chancellor's Award for Excellence in Research Engagement and Impact (Monash University)
Nation, R. (Recipient), Li, J. (Recipient), Roberts, K. (Recipient), Velkov, T. (Recipient) & Thompson, P. (Recipient), 2022

Vice Chancellors Award for Research Excellence, Deakin University
Velkov, T. (Recipient), 2010

Victorian College of Pharmacy Early Career Researcher Award
Velkov, T. (Recipient), 2008

Victorian Immunity and Infection Network Young Investigator Symposium Organizing Committee
Velkov, T. (Recipient), 2016

Press/Media

ABC Radio
Velkov, T.
3/05/22
1 item of Media coverage

A NEW WEAPON IN THE WAR AGAINST SUPERBUGS
Velkov, T.
15/10/21
1 Media contribution

Antibiotic resistance: an arms race going on millions of years
Velkov, T.
2/06/22
1 item of Media coverage

Antibiotic resistance is threatening our health. Will bacterial infection send us back to the medical dark age?
Velkov, T.
11/05/22
1 Media contribution

From concept to clinic: How Monash researchers developed a novel antibiotic candidate to tackle deadly bacterial 'superbugs'
Velkov, T.
2/04/22
1 Media contribution

How to solve a problem like antibiotic resistance
Velkov, T.
3/03/17
1 Media contribution

Into the wild to fight antibiotic resistance
Velkov, T.
9/05/22
1 Media contribution

Melbourne scientist discovers how a natural antibiotic can 'deceive' superbugs
Velkov, T.
13/10/22
1 Media contribution

Natural antibiotic 'outsmarts' superbugs
Velkov, T.
3/06/20
1 Media contribution

New antibiotic to combat deadly bacterial 'superbugs' enters clinical trials
Velkov, T.
18/06/21
1 Media contribution

Projects

Advancing innovative therapies against pandrug-resistant Gram-negative superbugs
Li, J. (Chief Investigator (CI)), Zhou, Q. (Primary Chief Investigator (PCI)), Rao, G. (Chief Investigator (CI)), Kaye, K. (Partner Investigator (PI)) & Velkov, T. (Partner Investigator (PI))
NIH - National Institutes of Health (United States of America)
1/07/19 → 30/06/25

An examination of the role of sterol carrier protein and ileal bile acid binding protein in drug absorption: ID 384300
Velkov, T. (Primary Chief Investigator (PCI))
NHMRC - National Health and Medical Research Council (Australia)
1/01/06 → 31/12/09

Antibacterial Material Design via Mechanism-Based Mathematical Modelling
Whittaker, M. (Primary Chief Investigator (PCI)), Landersdorfer, C. (Chief Investigator (CI)) & Velkov, T. (Chief Investigator (CI))
31/01/20 → 31/12/23

Binocular Stereo Microscope
Scanlon, M. (Primary Chief Investigator (PCI)) & Velkov, T. (Chief Investigator (CI))
Collier Charitable Fund

1/01/07 → 31/12/07

Combating bacterial 'superbugs' by innovative dosing strategies that combine available antibiotics to prevent resistance
Landersdorfer, C. (Primary Chief Investigator (PCI)), Boyce, J. (Chief Investigator (CI)), Bulitta, J. B. B. (Chief Investigator (CI)), Kirkpatrick, C. (Chief Investigator (CI)), Nation, R. (Chief Investigator (CI)), Oliver, A. (Chief Investigator (CI)) & Velkov, T. (Chief Investigator (CI))
NHMRC - National Health and Medical Research Council (Australia)
1/01/13 → 31/12/16

Combating Deadly Gram-negative Lung Infections: An Inhalation and Systems Approach
Li, J. (Primary Chief Investigator (PCI)) & Velkov, T. (Chief Investigator (CI))
NIH - National Institutes of Health (United States of America)
1/08/17 → 31/07/22

Controlling a novel catalytic center within an innate immune system protein to dampen or heighten the immune response.
Irving, H. (Primary Chief Investigator (PCI)), Velkov, T. (Chief Investigator (CI)) & Manallack, D. (Chief Investigator (CI))
8/06/17 → 30/04/19

Deciphering the mechanisms of antibacterial activity and resistance of polymyxins in Gram-negative bacteria
Han, M. (Primary Chief Investigator (PCI)) & Velkov, T. (Chief Investigator (CI))
1/07/16 → 30/06/17

Integrative systems pharmacology, neutron reflectometry and molecular dynamics approaches to unravelling the interaction between polymyxins and bacterial membranes
Li, J. (Primary Chief Investigator (PCI)), Shen, H.-H. (Chief Investigator (CI)), Velkov, T. (Chief Investigator (CI)), Song, J. (Chief Investigator (CI)) & Schreiber, F. (Chief Investigator (CI))
1/01/18 → 31/12/23

New tricks for 'old' drugs:PK/PD of polymyxin nonantibiotic combinations
Li, J. (Primary Chief Investigator (PCI)), Song, J. (Chief Investigator (CI)), Forrest, A. (Chief Investigator (CI)), Creek, D. (Chief Investigator (CI)), Velkov, T. (Chief Investigator (CI)), Purcell, A. (Chief Investigator (CI)) & Hertzog, P. (Chief Investigator (CI))
NIH - National Institutes of Health (United States of America)
1/04/14 → 31/03/19

NHMRC Career Development Award - Level 1 - Industry
Velkov, T. (Primary Chief Investigator (PCI))
NHMRC - National Health and Medical Research Council (Australia)
1/01/11 → 31/12/14

Novel octapeptin antibiotics targeting extremely drug resistant 'superbugs'
Velkov, T. (Primary Chief Investigator (PCI)), Li, J. (Chief Investigator (CI)) & Thompson, P. (Chief Investigator (CI))
1/01/17 → 31/10/17

Optimising inhaled polymyxins as a vital therapy for pulmonary infections: A novel biochemical, molecular imaging and systems pharmacology approach
Li, J. (Primary Chief Investigator (PCI)), Chan, H.-K. (Chief Investigator (CI)), Velkov, T. (Chief Investigator (CI)), Zhou, Q. (Chief Investigator (CI)) & Zhou, F. (Chief Investigator (CI))
NHMRC - National Health and Medical Research Council (Australia)
1/01/16 → 31/12/18

Pharmacology of intrathecal/intraventricular polymyxins: A systems-based approach
Rao, G. (Primary Chief Investigator (PCI)), Velkov, T. (Chief Investigator (CI)), Kaye, K. (Chief Investigator (CI)) & Li, J. (Chief Investigator (CI))
1/07/20 → 30/06/24

Polymyxin-like lipopeptide antibiotics of the future
Velkov, T. (Primary Chief Investigator (PCI)), Li, J. (Chief Investigator (CI)) & Thompson, P. (Chief Investigator (CI))
NHMRC - National Health and Medical Research Council (Australia)
1/01/14 → 31/12/16

Rescuing the last-line therapy colistin against Gram-negative 'superbugs': increasing the therapeutic index by attenuation of nephrotoxicity
Li, J. (Primary Chief Investigator (PCI)), Hill, P. A. (Chief Investigator (CI)), Nation, R. (Chief Investigator (CI)) & Velkov, T. (Chief Investigator (CI))
NHMRC - National Health and Medical Research Council (Australia)
1/01/12 → 31/12/14

Small molecule inhibitors of apical bile acid transporter in the ileum as therapeutic agents for hypercholesterolemia
Velkov, T. (Primary Chief Investigator (PCI))
Trustee for Helen Macpherson Smith Trust
17/03/11 → 31/12/12

Structural biology of mesothelin in the metastasis of asbestos-induced malignant pleural mesothelioma
Velkov, T. (Primary Chief Investigator (PCI))
Lung Foundation Australia
1/03/10 → 1/03/11

Targeting polymyxin-resistant Gram-negative 'superbugs': development of novel antimicrobial peptides
Li, J. (Primary Chief Investigator (PCI)), Nation, R. (Chief Investigator (CI)), Thompson, P. (Chief Investigator (CI)) & Velkov, T. (Chief Investigator (CI))
NHMRC - National Health and Medical Research Council (Australia)
1/01/10 → 31/12/12

Targeting Superbugs: discovery and development of new broad-spectrum lipopeptide
Li, J. (Primary Chief Investigator (PCI)), Dudley, M. N. (Chief Investigator (CI)), Griffith, D. (Chief Investigator (CI)), Hecker, S. (Chief Investigator (CI)), Lomovskaya, O. (Chief Investigator (CI)), Nation, R. (Chief Investigator (CI)), Roberts, K. (Chief Investigator (CI)), Thompson, P. (Chief Investigator (CI)) & Velkov, T. (Chief Investigator (CI))
NIH - National Institutes of Health (United States of America)
1/06/12 → 31/05/17

Targeting the Achilles' heel of polymyxins: eliminating the nephrotoxicity
Li, J. (Primary Chief Investigator (PCI)), Nation, R. (Chief Investigator (CI)), Thompson, P. (Chief Investigator (CI)) & Velkov, T. (Chief Investigator (CI))
NHMRC - National Health and Medical Research Council (Australia)
1/01/15 → 31/12/17

Targeting the Urgent Need for New Antibiotics against Gram-negative ‘Superbugs’
Li, J. (Primary Chief Investigator (PCI)), Velkov, T. (Chief Investigator (CI)), Roberts, K. (Chief Investigator (CI)), Thompson, P. (Chief Investigator (CI)) & Nation, R. (Associate Investigator (AI))
1/08/17 → 31/07/23

The Hunt for New-generation Lipopeptide Antibiotics Targeting Gram-negative 'Superbugs'
Velkov, T. (Primary Chief Investigator (PCI))
NHMRC - National Health and Medical Research Council (Australia)
1/01/15 → 31/10/17

The structure and receptor binding properties of the 2009 swine influenza pandemic Hemagglutinin
El-Kabbani, O. (Primary Chief Investigator (PCI)) & Velkov, T. (Chief Investigator (CI))
NHMRC - National Health and Medical Research Council (Australia)
1/07/09 → 30/06/10

UV-visible spectrophotometer and software
El-Kabbani, O. (Primary Chief Investigator (PCI)), Capuano, B. (Chief Investigator (CI)), Chung, R. (Chief Investigator (CI)) & Velkov, T. (Chief Investigator (CI))
Collier Charitable Fund
1/01/09 → 30/09/09