Anthony Purcell
Biochemistry & Molecular Biology
Monash Biomedicine Discovery Institute
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Biography

Our laboratory specialises in targeted and global quantitative proteomics of complex biological samples, with a specific focus on identifying targets of the immune response and host-pathogen interactions. The laboratory has an outstanding track record in delivering high end outcomes including recent publications in highly regarding peer reviewed journals including Nature (5), Nature Immunol (9), Science Immunology, Nat Struc Mol Biol (2), Nature Comunications (5), PNAS (14), J Exp Med (8), Immunity (8), Nature Protocols, Mol Cell Proteomics (5), Proteomics (7) and J Proteomics Res (3). We combine cutting edge proteomics with human immunology, molecular virology, structural and functional immunology to address a wide variety of immune questions.

Employment

Professor (Research)
Biochemistry & Molecular Biology
MONASH UNIVERSITY
2 Jul 2012 → present

Monash Biomedicine Discovery Institute
MONASH UNIVERSITY
1 Jan 2016 → present

Councillor Human Proteome Organisation
Human Proteome Organization
Houston, United States of America
1 Jan 2017 → 31 Dec 2023

Visiting Professor
University of Southampton
Highfield, United Kingdom
1 Jan 2016 → 31 Dec 2019

Research outputs

Unconventional presentation of an immunodominant HLA-DR15-restricted nephritogenic proteinase 3 epitope implicated in vasculitis
Lu, C., Shochet, I. R., Lim, J.-J., Loh, T. J., Goh, S. J. R., Jones, C. M., Zhang, J. B., Allmannsberger, L., Prakongtham, P., Tran, M. T., Chisanga, D., Ryan, J., Fugger, L., Moser, M., Jenne, D., Reid, H. H., la Gruta, N. L., Purcell, A. W., Rossjohn, J. & Kitching, A. R., 22 Jul 2026, bioRxiv, 2026 51 p.

Atypical presentation of the immunodominant human PR3 T cell epitope by HLA-DR15 to CD4+ T cells induces autoimmune kidney injury
Lu, C., Shochet, L., Tran, M. T., Jones, C. M., Goh, S. J. R., Prakongtham, P., Loh, T. J., Lim, J.-J., Ryan, J., Fugger, L., Jenne, D., Purcell, A. W., la Gruta, N. L., Reid, H. H., Rossjohn, J. & Kitching, A. R., 19 Feb 2026, p. 13. 1 p.

The antigen-presenting molecule MR1 binds host-generated riboflavin catabolites
Abdelaal, M. R. (Leading Author), Deng, J., McInerney, M. P., Ito, E., Purcell, A. W., Yamasaki, S., Villadangos, J. A., McWilliam, H. E. G., Gherardin, N. A., Rossjohn, J. (Leading Author) & Awad, W. (Leading Author), 2 Feb 2026, In: Journal of Experimental Medicine. 223, 2, 20 p., e20250711.

HLA-A*02:01 Presents Penicillin-Modified Cysteinylated Peptides for T Cell Recognition
Goh, S. J. R. (Leading Author), Lu, H. H. W., Scull, K. E., Pandey, K., Dorvash, M., Deckert, K., Puy, R., O'Hehir, R. E., Purcell, A. W. (Leading Author), Mifsud, N. A. (Leading Author) & Illing, P. T. (Leading Author), Nov 2025, In: Allergy. 80, 11, p. 3165-3177 13 p.

Population Pharmacokinetic/Toxicodynamic Model for Polymyxin B in Critically Ill Patients to Identify the Risk of Nephrotoxicity
Hanafin, P. O., Mahadevan, R., Rao, G. G., Zavascki, A. P., Sandri, A. M., Kwa, A., Scheetz, M. H., Kubin, C. J., Shah, J., Cherng, B. P. Z., Yin, M. T., Wang, J., Wang, L., Calfee, D. P., Bolon, M., Purcell, A. W., Nation, R. L., Pogue, J. M., Li, J. & Kaye, K. S., Oct 2025, In: Clinical Pharmacology and Therapeutics. 118, 4, p. 841-852 12 p.

The Validation of Antibodies Suitable for Flow Cytometric Analysis and Immunopeptidomics of Peptide–MHC Complexes in the Outbred Swiss Albino Mouse Strain
Chung, S., Knox-Johnson, I. G., Gazzard, S. E., Song, R., Le, N. H., Cullen-McEwen, L. A., Bertram, J. F., Purcell, A. W. & Braun, A., Jun 2025, In: Methods and Protocols. 8, 3, 14 p., 43.

LOXHD1 is an oncofusion-regulated antigen of ewing sarcoma
Blanchard, T., Faridi, P., Xu, C., Bear, A. S., Rasool, R. U., Huang, G., Lim, T. C. C., Ayala, R., Gabunia, K., Ji, M., Posey, A. D., Scholler, J., Asangani, I. A., Purcell, A. W., Linette, G. P., June, C. H. & Carreno, B. M., 15 Apr 2025, In: Scientific Reports. 15, 1, 13 p., 13007.

Peptide selectivity of killer cell immunoglobulin-like receptors differs with allotypic variation in HLA class I
Saunders, P. M. (Leading Author), Illing, P. T. (Leading Author), Coin, L., Wong, S. C., Oates, C. V. L., Purcell, A. W. & Brooks, A. G. (Leading Author), Apr 2025, In: Journal of Immunology. 214, 4, p. 747-761 15 p.

Endogenous viral elements constitute a complementary source of antigens for personalized cancer vaccines
Garde, C., Pavlidis, M. A., Garces, P., Lange, E. J., Ramarathinam, S. H., Sokač, M., Pandey, K., Faridi, P., Ahrenfeldt, J., Chung, S., Friis, S., Kleine-Kohlbrecher, D., Birkbak, N. J., Kringelum, J. V., Rønø, B., Purcell, A. W. & Trolle, T., 20 Mar 2025, In: npj Vaccines. 10, 1, 15 p., 54.

Multiple Classes of Antigen Contribute to the Antigenic Landscape of Mesothelioma
Pandey, K., Faridi, P., Ayala, R., Lee, Y. C. G., Rouse, E., Krishna, S. S. G., Dick, I., Redwood, A., Robinson, B., Creaney, J. & Purcell, A. W., Mar 2025, In: Molecular and Cellular Proteomics. 24, 3, 13 p., 100925.

Discovery of conserved peptide-MHC epitopes for directly alloreactive $CD8^+$ T cells
Hill, A. E., Son, E. T., Paul-Heng, M., Wang, C., Ratnaseelan, S., Denkova, M., Faridi, P., Braun, A., Purcell, A. W., Mifsud, N. A. & Sharland, A. F., 29 Jan 2025, In: Frontiers in Transplantation. 4, 11 p., 1525003.

Correction to: π-HuB: the proteomic navigator of the human body (Nature, (2024), 636, 8042, (322-331), 10.1038/s41586-024-08280-5)
He, F., Aebersold, R., Baker, M. S., Bian, X., Bo, X., Chan, D. W., Chang, C., Chen, L., Chen, X., Chen, Y. J., Cheng, H., Collins, B. C., Corrales, F., Cox, J., E, W., Van Eyk, J. E., Fan, J., Faridi, P., Figeys, D. & Gao, G. F. & 86 others, Gao, W., Gao, Z. H., Goda, K., Goh, W. W. B., Gu, D., Guo, C., Guo, T., He, Y., Heck, A. J. R., Hermjakob, H., Hunter, T., Iyer, N. G., Jiang, Y., Jimenez, C. R., Joshi, L., Kelleher, N. L., Li, M., Li, Y., Lin, Q., Liu, C. H., Liu, F., Liu, G. H., Liu, Y., Liu, Z., Low, T. Y., Lu, B., Mann, M., Meng, A., Moritz, R. L., Nice, E., Ning, G., Omenn, G. S., Overall, C. M., Palmisano, G., Peng, Y., Pineau, C., Poon, T. C. W., Purcell, A. W., Qiao, J., Reddel, R. R., Robinson, P. J., Roncada, P., Sander, C., Sha, J., Song, E., Srivastava, S., Sun, A., Sze, S. K., Tang, C., Tang, L., Tian, R., Vizcaíno, J. A., Wang, C., Wang, C., Wang, X., Wang, X., Wang, Y., Weiss, T., Wilhelm, M., Winkler, R., Wollscheid, B., Wong, L., Xie, L., Xie, W., Xu, T., Xu, T., Yan, L., Yang, J., Yang, X., Yates, J., Yun, T., Zhai, Q., Zhang, B., Zhang, H., Zhang, L., Zhang, L., Zhang, P., Zhang, Y., Zheng, Y. Z., Zhong, Q., Zhu, Y., Tao, S. C., Tang, B. Z., Tan, M., Su, S. & The π-HuB Consortium, 16 Jan 2025, In: Nature. 637, 8046, p. E22 1 p.

Evidence of focusing the MHC class I immunopeptidome by tapasin
Darley, R., Illing, P. T., Duriez, P., Bailey, A., Purcell, A. W., van Hateren, A. & Elliott, T., 2025, In: Frontiers in Immunology. 16, 16 p., 1563789.

π-HuB: the proteomic navigator of the human body
He, F., Aebersold, R., Baker, M. S., Bian, X., Bo, X., Chan, D. W., Chang, C., Chen, L., Chen, X., Chen, Y. J., Cheng, H., Collins, B. C., Corrales, F., Cox, J., E, W., Van Eyk, J. E., Fan, J., Faridi, P., Figeys, D. & Gao, G. F. & 81 others, Gao, W., Gao, Z. H., Goda, K., Goh, W. W. B., Gu, D., Guo, C., Guo, T., He, Y., Heck, A. J. R., Hermjakob, H., Hunter, T., Iyer, N. G., Jiang, Y., Jimenez, C. R., Joshi, L., Kelleher, N. L., Li, M., Li, Y., Lin, Q., Liu, C. H., Liu, F., Liu, G. H., Liu, Y., Liu, Z., Low, T. Y., Lu, B., Mann, M., Meng, A., Nice, E., Ning, G., Omenn, G. S., Overall, C. M., Palmisano, G., Peng, Y., Pineau, C., Poon, T. C. W., Purcell, A. W., Qiao, J., Reddel, R. R., Robinson, P. J., Roncada, P., Sander, C., Sha, J., Song, E., Srivastava, S., Sun, A., Sze, S. K., Tang, C., Tang, L., Tian, R., Vizcaíno, J. A., Wang, C., Wang, C., Wang, X., Wang, X., Wang, Y., Weiss, T., Wilhelm, M., Winkler, R., Wollscheid, B., Wong, L., Xie, L., Xie, W., Xu, T., Xu, T., Yan, L., Yang, J., Yang, X., Yates, J., Yun, T., Zhai, Q., Zhang, B., Zhang, H., Zhang, L., Zhang, L., Zhang, P., Zhang, Y., Zheng, Y. Z., Zhong, Q., Zhu, Y. & The π-HuB Consortium, 12 Dec 2024, In: Nature. 636, 8042, p. 322-331 10 p.

MR1 presents vitamin B6-related compounds for recognition by MR1-reactive T cells
McInerney, M. P. (Leading Author), Awad, W. (Leading Author), Souter, M. N. T. (Leading Author), Kang, Y. (Leading Author), Wang, C. J. H., Poa, K. C. Y., Abdelaal, M. R., Le, N. H., Shepherd, C. M., McNeice, C., Meehan, L. J., Nelson, A. G., Raynes, J. M., Mak, J. Y. W., McCluskey, J., Chen, Z., Ang, C. S., Fairlie, D. P., Nours, J. L. & Illing, P. T. (Leading Author) & 2 others, Rossjohn, J. (Leading Author) & Purcell, A. W. (Leading Author), 3 Dec 2024, In: Proceedings of the National Academy of Sciences of the United States of America. 121, 49, 12 p., e2414792121.

Mapping the immunopeptidome of seven SARS-CoV-2 antigens across common HLA haplotypes
Braun, A., Rowntree, L. C., Huang, Z., Pandey, K., Thuesen, N., Li, C., Petersen, J., Littler, D. R., Raji, S., Nguyen, T. H. O., Jappe Lange, E., Persson, G., Schantz Klausen, M., Kringelum, J., Chung, S., Croft, N. P., Faridi, P., Ayala, R., Rossjohn, J. & Illing, P. T. & 6 others, Scull, K. E., Ramarathinam, S., Mifsud, N. A., Kedzierska, K., Sørensen, A. B. & Purcell, A. W., Dec 2024, In: Nature Communications. 15, 1, 12 p., 7547.

Epitope-anchored contrastive transfer learning for paired CD8+ T cell receptor–antigen recognition
Zhang, Y., Wang, Z., Jiang, Y., Littler, D. R., Gerstein, M., Purcell, A. W., Rossjohn, J., Ou, H. Y. & Song, J., Nov 2024, In: Nature Machine Intelligence. 6, 11, p. 1344–1358 15 p.

α-Mannosylated HLA-II glycopeptide antigens dominate the immunopeptidome of immortalised cells and tumour tissues
Goodson, H., Kawahara, R., Fehring, J., Purcell, A. W., Croft, N. P. & Thaysen-Andersen, M., Nov 2024, In: Glycobiology. 34, 11, 7 p., cwae057.

Combining *ERAP1* silencing and entinostat therapy to overcome resistance to cancer immunotherapy in neuroblastoma
Tempora, P., D'Amico, S., Gragera, P., Damiani, V., Krol, K., Scaldaferri, V., Pandey, K., Chung, S., Lucarini, V., Giorda, E., Scarsella, M., Volpe, G., Pezzullo, M., De Stefanis, C., D'Oria, V., De Angelis, L., Giovannoni, R., De Ioris, M. A., Melaiu, O. & Purcell, A. W. & 2 others, Locatelli, F. & Fruci, D., 22 Oct 2024, In: Journal of Experimental and Clinical Cancer Research. 43, 1, 18 p., 292.

The nuclear export protein XPO1 provides a peptide ligand for natural killer cells
Blunt, M. D., Fisher, H., Schittenhelm, R. B., Mbiribindi, B., Fulton, R., Khan, S., Espana-Serrano, L., Graham, L. V., Bastidas-Legarda, L., Burns, D., Khakoo, S. M. S., Mansour, S., Essex, J. W., Ayala, R., Das, J., Purcell, A. W. & Khakoo, S. I., 23 Aug 2024, In: Science Advances. 10, 34, 10 p., eado6566.

A tactile approach to introduce the skin autoimmune disease psoriasis to the general public and the vision-impaired community
Song, R., Ye, J., Chung, S., Meyer, C. C., Déchelette, C., Purcell, A. W. & Braun, A., May 2024, In: Immunology and Cell Biology. 102, 5, p. 336-340 5 p.

$CD8^+$ T-cell responses towards conserved influenza B virus epitopes across anatomical sites and age
Menon, T. (Leading Author), Illing, P. T. (Leading Author), Chaurasia, P. (Leading Author), McQuilten, H. A., Shepherd, C., Rowntree, L. C., Petersen, J., Littler, D. R., Khuu, G., Huang, Z., Allen, L. F., Rockman, S., Crowe, J., Flanagan, K. L., Wakim, L. M., Nguyen, T. H. O., Mifsud, N. A., Rossjohn, J. (Leading Author), Purcell, A. W. (Leading Author) & van de Sandt, C. E. (Leading Author) & 1 others, Kedzierska, K. (Leading Author), 29 Apr 2024, In: Nature Communications. 15, 1 , 21 p., 3387.

A Simple and Rapid Protocol for the Isolation of Murine Bone Marrow Suitable for the Differentiation of Dendritic Cells
Song, R., Bafit, M., Tullett, K. M., Tan, P. S., Lahoud, M. H., O'Keeffe, M., Purcell, A. W. & Braun, A., Apr 2024, In: Methods and Protocols. 7, 2, 10 p., 20.

***DNAJB1-PRKACA* fusion neoantigens elicit rare endogenous T cell responses that potentiate cell therapy for fibrolamellar carcinoma**
Kirk, A. M., Crawford, J. C., Chou, C. H., Guy, C., Pandey, K., Kozlik, T., Shah, R. K., Chung, S., Nguyen, P., Zhang, X., Wang, J., Bell, M., Mettelman, R. C., Allen, E. K., Pogorelyy, M. V., Kim, H., Minervina, A. A., Awad, W., Bajracharya, R. & White, T. & 18 others, Long, D., Gordon, B., Morrison, M., Glazer, E. S., Murphy, A. J., Jiang, Y., Fitzpatrick, E. A., Yarchoan, M., Sethupathy, P., Croft, N. P., Purcell, A. W., Federico, S. M., Stewart, E., Gottschalk, S., Zamora, A. E., DeRenzo, C., Strome, S. E. & Thomas, P. G., 19 Mar 2024, In: Cell Reports Medicine. 5, 3, p. 1-e16 34 p., 101469.

MHCpLogics: an interactive machine learning-based tool for unsupervised data visualization and cluster analysis of immunopeptidomes
Shahbazy, M., Ramarathinam, S. H., Li, C., Illing, P. T., Faridi, P. (Leading Author), Croft, N. P. & Purcell, A. W., 1 Mar 2024, In: Briefings in Bioinformatics. 25, 2, 17 p., bbae087.

Conserved allomorphs of MR1 drive the specificity of MR1-restricted TCRs
Cornforth, T. V., Moyo, N., Cole, S., Lam, E. P. S., Lobry, T., Wolchinsky, R., Lloyd, A., Ward, K., Denham, E. M., Masi, G., Qing Yun, P. T., Moore, C., Dhaouadi, S., Besra, G. S., Veerapen, N., Illing, P. T., Vivian, J. P., Raynes, J. M., Le Nours, J. & Purcell, A. W. & 7 others, Kundu, S., Silk, J. D., Williams, L., Papa, S., Rossjohn, J., Howie, D. & Dukes, J., 2024, In: Frontiers in Oncology. 14, 15 p., 1419528.

The allopurinol metabolite, oxypurinol, drives oligoclonal expansions of drug-reactive T cells in resolved hypersensitivity cases and drug-naïve healthy donors
Mifsud, N. A., Illing, P. T., Ho, R., Tuomisto, J. E., Fettke, H., Mullan, K. A., McCluskey, J., Rossjohn, J., Vivian, J., Reantragoon, R. & Purcell, A. W., Nov 2023, In: Allergy. 78, 11, p. 2980-2993 14 p.

Need to know which MHCs protect against COVID? There's an App for that!
Witney, M. J., Purcell, A. W. & Tscharke, D. C., Oct 2023, In: Immunology and Cell Biology. 101, 9, p. 789-792 4 p.

Endogenous H3.3K27M derived peptide restricted to HLA-A*02:01 is insufficient for immune-targeting in diffuse midline glioma
Wang, S. S., Pandey, K., Watson, K. A., Abbott, R. C., Mifsud, N. A., Gracey, F. M., Ramarathinam, S. H., Cross, R. S., Purcell, A. W. & Jenkins, M. R., 21 Sept 2023, In: Molecular Therapy - Oncolytics. 30, p. 167-180 14 p.

A population pharmacokinetic model of polymyxin B based on prospective clinical data to inform dosing in hospitalized patients
Hanafin, P. O., Kwa, A., Zavascki, A. P., Sandri, A. M., Scheetz, M. H., Kubin, C. J., Shah, J., Cherng, B. P. Z., Yin, M. T., Wang, J., Wang, L., Calfee, D. P., Bolon, M., Pogue, J. M., Purcell, A. W., Nation, R. L., Li, J., Kaye, K. S. & Rao, G. G., Sept 2023, In: Clinical Microbiology and Infection. 29, 9, p. 1174-1181 8 p.

A combined immunopeptidomics, proteomics, and cell surface proteomics approach to identify immunotherapy targets for diffuse intrinsic pontine glioma
Pandey, K., Wang, S. S., Mifsud, N. A., Faridi, P., Davenport, A. J., Webb, A. I., Sandow, J. J., Ayala, R., Monje, M., Cross, R. S., Ramarathinam, S. H., Jenkins, M. R. & Purcell, A. W., 11 Aug 2023, In: Frontiers in Oncology. 13, 17 p., 1192448.

Complimentary electrostatics dominate T-cell receptor binding to a psoriasis-associated peptide antigen presented by human leukocyte antigen C*06:02
Anand, S., Littler, D. R., Mobbs, J. I., Braun, A., Baker, D. G., Tennant, L., Purcell, A. W., Vivian, J. P. & Rossjohn, J., Jul 2023, In: Journal of Biological Chemistry. 299, 7, 10 p., 104930.

SAPrIm, a semi-automated protocol for mid-throughput immunopeptidomics
Lim Kam Sian, T. C. C., Goncalves, G., Steele, J. R., Shamekhi, T., Bramberger, L., Jin, D., Shahbazy, M., Purcell, A. W., Ramarathinam, S., Stoychev, S. & Faridi, P., 2 Jun 2023, In: Frontiers in Immunology. 14, 10 p., 1107576.

Are Induced/altered Self-peptide Antigens Responsible for De Novo Autoreactivity in Transplantation?
Sharland, A. F., Hill, A. E., Son, E. T., Scull, K. E., Mifsud, N. A. & Purcell, A. W., 1 Jun 2023, In: Transplantation. 107, 6, p. 1232-1236 5 p.

Benchmarking Bioinformatics Pipelines in Data-Independent Acquisition Mass Spectrometry for Immunopeptidomics
Shahbazy, M., Ramarathinam, S. H., Illing, P. T., Jappe, E. C., Faridi, P., Croft, N. P. & Purcell, A. W., Apr 2023, In: Molecular and Cellular Proteomics. 22, 4, 14 p., 100515.

Screening self-peptides for recognition by mouse alloreactive CD8$^+$ T cells using direct ex vivo multimer staining
Son, E. T., Paul-Heng, M., Leong, M., Wang, C., Hill, A. E., Denkova, M., Purcell, A. W., Mifsud, N. A. & Sharland, A. F., 17 Mar 2023, In: STAR Protocols. 4, 1, 17 p., 101943.

PFresGO: an attention mechanism-based deep-learning approach for protein annotation by integrating gene ontology inter-relationships
Pan, T., Li, C., Bi, Y., Wang, Z., Gasser, R. B., Purcell, A. W., Akutsu, T., Webb, G. I., Imoto, S. & Song, J., Mar 2023, In: Bioinformatics. 39, 3, 8 p., btad094.

Immunolyser: A web-based computational pipeline for analysing and mining immunopeptidomic data
Munday, P. R., Fehring, J., Revote, J., Pandey, K., Shahbazy, M., Scull, K. E., Ramarathinam, S. H., Faridi, P., Croft, N. P., Braun, A., Li, C. & Purcell, A. W., Jan 2023, In: Computational and Structural Biotechnology Journal. 21, p. 1678-1687 10 p.

TCR_Explore: A novel webtool for T cell receptor repertoire analysis
Mullan, K. A., Zhang, J. B., Jones, C. M., Goh, S. J. R., Revote, J., Illing, P. T., Purcell, A. W., La Gruta, N. L., Li, C. & Mifsud, N. A., Jan 2023, In: Computational and Structural Biotechnology Journal. 21, p. 1272-1282 11 p.

Profound *N*-glycan remodelling accompanies MHC-II immunopeptide presentation
Goodson, H., Kawahara, R., Chatterjee, S., Goncalves, G., Fehring, J., Purcell, A. W., Croft, N. P. & Thaysen-Andersen, M., 2023, In: Frontiers in Immunology. 14, p. 1-10 10 p., 1258518.

Quantitative affinity measurement of small molecule ligand binding to major histocompatibility complex class-I–related protein 1 MR1
Wang, C. J. H., Awad, W., Liu, L., Mak, J. Y. W., Veerapen, N., Illing, P. T., Purcell, A. W., Eckle, S. B. G., McCluskey, J., Besra, G. S., Fairlie, D. P., Rossjohn, J. & Le Nours, J., Dec 2022, In: Journal of Biological Chemistry. 298, 12, 12 p., 102714.

Understanding the Role of HLA Class I Molecules in the Immune Response to Influenza Infection and Rational Design of a Peptide-Based Vaccine
Muraduzzaman, A. K. M., Illing, P. T., Mifsud, N. A. & Purcell, A. W., 21 Nov 2022, In: Viruses. 14, 11, 18 p., 2578.

Multi-Omic Analysis of Two Common P53 Mutations: Proteins Regulated by Mutated P53 as Potential Targets for Immunotherapy
Vadakekolathu, J., Boocock, D. J., Pandey, K., Guinn, B. A., Legrand, A., Miles, A. K., Coveney, C., Ayala, R., Purcell, A. W. & McArdle, S. E., 2 Aug 2022, In: Cancers. 14, 16, 17 p., 3975.

New insights and approaches for analyses of immunopeptidomes
Illing, P. T., Ramarathinam, S. H. & Purcell, A. W., Aug 2022, In: Current Opinion in Immunology. 77, 8 p., 102216.

PCfun: a hybrid computational framework for systematic characterization of protein complex function
Sharma, V. S., Fossati, A., Ciuffa, R., Buljan, M., Williams, E. G., Chen, Z., Shao, W., Pedrioli, P. G. A., Purcell, A. W., Martínez, M. R., Song, J., Manica, M., Aebersold, R. & Li, C., Jul 2022, In: Briefings in Bioinformatics. 23, 4, p. 1-15 15 p., bbac239.

T Cell Epitope Discovery in the Context of Distinct and Unique Indigenous HLA Profiles
Hensen, L., Illing, P. T., Rowntree, L. C., Davies, J., Miller, A., Tong, S. Y. C., Habel, J. R., van de Sandt, C. E., Flanagan, K., Purcell, A. W., Kedzierska, K. & Clemens, E. B., 6 May 2022, In: Frontiers in Immunology. 13, 23 p., 812393.

Defective Proinsulin Handling Modulates the MHC I Bound Peptidome and Activates the Inflammasome in β-Cells
Khilji, M. S., Faridi, P., Pinheiro-Machado, E., Hoefner, C., Dahlby, T., Aranha, R., Buus, S., Nielsen, M., Klusek, J., Mandrup-Poulsen, T., Purcell, A. W. & Marzec, M. T., Apr 2022, In: Biomedicines. 10, 4, 19 p., 814.

HLA-A*11:01-restricted $CD8^+$ T cell immunity against influenza A and influenza B viruses in Indigenous and non-Indigenous people
Habel, J. R., Nguyen, A. T., Rowntree, L. C., Szeto, C., Mifsud, N. A., Clemens, E. B., Loh, L., Chen, W., Rockman, S., Nelson, J., Davies, J., Miller, A., Tong, S. Y. C., Rossjohn, J., Gras, S., Purcell, A. W., Hensen, L., Kedzierska, K. & Illing, P. T., Mar 2022, In: PLoS Pathogens. 18, 3, 28 p., e1010337.

MhcVizPipe: A Quality Control Software for Rapid Assessment of Small- To Large-Scale Immunopeptidome Datasets
Kovalchik, K. A., Ma, Q., Wessling, L., Saab, F., Duquette, J. D., Kubiniok, P., Hamelin, D. J., Faridi, P., Li, C., Purcell, A. W., Jang, A., Paramithiotis, E., Tognetti, M., Reiter, L., Bruderer, R., Lanoix, J., Bonneil, É., Courcelles, M., Thibault, P. & Caron, E. & 1 others, Sirois, I., Jan 2022, In: Molecular and Cellular Proteomics. 21, 1, 15 p., 100178.

RHybridFinder: An R package to process immunopeptidomic data for putative hybrid peptide discovery
Saab, F., Hamelin, D. J., Ma, Q., Kovalchik, K. A., Sirois, I., Faridi, P., Li, C., Purcell, A. W., Kubiniok, P. & Caron, E., 17 Dec 2021, In: STAR Protocols. 2, 4, 15 p., 100875.

A natural product compound inhibits coronaviral replication in vitro by binding to the conserved Nsp9 SARS-CoV-2 protein
Littler, D. R., Liu, M., McAuley, J. L., Lowery, S. A., Illing, P. T., Gully, B. S., Purcell, A. W., Chandrashekaran, I. R., Perlman, S., Purcell, D. F. J., Quinn, R. J. & Rossjohn, J., Dec 2021, In: Journal of Biological Chemistry. 297, 6, 13 p., 101362.

Transcriptional signature in microglia associated with Aβ plaque phagocytosis
Grubman, A., Choo, X. Y., Chew, G., Ouyang, J. F., Sun, G., Croft, N. P., Rossello, F. J., Simmons, R., Buckberry, S., Landin, D. V., Pflueger, J., Vandekolk, T. H., Abay, Z., Zhou, Y., Liu, X., Chen, J., Larcombe, M., Haynes, J. M., McLean, C. & Williams, S. & 8 others, Chai, S. Y., Wilson, T., Lister, R., Pouton, C. W., Purcell, A. W., Rackham, O. J. L., Petretto, E. & Polo, J. M., Dec 2021, In: Nature Communications. 12, 1, 22 p., 3015.

The differentiation state of the Schwann cell progenitor drives phenotypic variation between two contagious cancers
Owen, R. S., Ramarathinam, S. H., Bailey, A., Gastaldello, A., Hussey, K., Skipp, P. J., Purcell, A. W. & Siddle, H. V., Nov 2021, In: PLoS Pathogens. 17, 11, 23 p., e1010033.

The self-peptide repertoire plays a critical role in transplant tolerance induction
Son, E. T., Faridi, P., Paul-Heng, M., Leong, M. L., English, K., Ramarathinam, S. H., Braun, A., Dudek, N. L., Alexander, I. E., Lisowski, L., Bertolino, P., Bowen, D. G., Purcell, A. W., Mifsud, N. A. & Sharland, A. F., Nov 2021, In: The Journal of Clinical Investigation. 131, 21, 21 p., e146771.

Anthem: a user customised tool for fast and accurate prediction of binding between peptides and HLA class I molecules
Mei, S., Li, F., Xiang, D., Ayala, R., Faridi, P., Webb, G. I., Illing, P. T., Rossjohn, J., Akutsu, T., Croft, N. P., Purcell, A. W. & Song, J., Sept 2021, In: Briefings in Bioinformatics. 22, 5, p. 1-16 16 p., bbaa415.

HLA class II immunopeptidomics reveals that co-inherited HLA-allotypes within an extended haplotype can improve proteome coverage for immunosurveillance
Ramarathinam, S. H., Ho, B. K., Dudek, N. L. & Purcell, A. W., Sept 2021, In: Proteomics. 21, 17-18, 12 p., 2000160.

Proteomics special issue: Precision immunology and oncology
Ramarathinam, S. H. & Purcell, A. W., Sept 2021, In: Proteomics. 21, 17-18, 3 p., 2000159.

Resourcing, annotating, and analysing synthetic peptides of SARS-CoV-2 for immunopeptidomics and other immunological studies
Li, C., Revote, J., Ramarathinam, S. H., Chung, S. Z., Croft, N. P., Scull, K. E., Huang, Z., Ayala, R., Braun, A., Mifsud, N. A., Illing, P. T., Faridi, P. & Purcell, A. W., Sept 2021, In: Proteomics. 21, 17-18, 11 p., e2100036.

T cell receptor recognition of hybrid insulin peptides bound to HLA-DQ8
Tran, M. T., Faridi, P., Lim, J. J., Ting, Y. T., Onwukwe, G., Bhattacharjee, P., Jones, C. M., Tresoldi, E., Cameron, F. J., La Gruta, N. L., Purcell, A. W., Mannering, S. I., Rossjohn, J. & Reid, H. H., 25 Aug 2021, In: Nature Communications. 12, 1, 13 p., 5110.

***Plasmodium berghei* Hsp90 contains a natural immunogenic I-A^{b}-restricted antigen common to rodent and human Plasmodium species**
Enders, M. H., Bayarsaikhan, G., Ghilas, S., Chua, Y. C., May, R., de Menezes, M. N., Ge, Z., Tan, P. S., Cozijnsen, A., Mollard, V., Yui, K., McFadden, G. I., Lahoud, M. H., Caminschi, I., Purcell, A. W., Schittenhelm, R. B., Beattie, L., Heath, W. R. & Fernandez-Ruiz, D., 13 Jul 2021, In: Current Research in Immunology. 2, p. 79-92 14 p.

Short duration alagebrium chloride therapy prediabetes does not inhibit progression to autoimmune diabetes in an experimental model
Borg, D. J., Faridi, P., Giam, K. L., Reeves, P., Fotheringham, A. K., McCarthy, D. A., Leung, S., Ward, M. S., Harcourt, B. E., Ayala, R., Scheijen, J. L., Briskey, D., Dudek, N. L., Schalkwijk, C. G., Steptoe, R., Purcell, A. W. & Forbes, J. M., Jul 2021, In: Metabolites. 11, 7, 21 p., 426.

The RNA-Binding Proteins SRP14 and HMGB3 Control HIV-1 Tat mRNA Processing and Translation During HIV-1 Latency
Khoury, G., Lee, M. Y., Ramarathinam, S. H., McMahon, J., Purcell, A. W., Sonza, S., Lewin, S. R. & Purcell, D. F. J., 14 Jun 2021, In: Frontiers in Genetics. 12, 18 p., 680725.

The immunopeptidomes of two transmissible cancers and their host have a common, dominant peptide motif
Gastaldello, A., Ramarathinam, S. H., Bailey, A., Owen, R., Turner, S., Kontouli, N., Elliott, T., Skipp, P., Purcell, A. W. & Siddle, H. V., Jun 2021, In: Immunology. 163, 2, p. 169-184 16 p.

Kinetics of Abacavir-Induced Remodelling of the Major Histocompatibility Complex Class I Peptide Repertoire
Illing, P. T., van Hateren, A., Darley, R., Croft, N. P., Mifsud, N. A., King, S., Kostenko, L., Bharadwaj, M., McCluskey, J., Elliott, T. & Purcell, A. W., 19 May 2021, In: Frontiers in Immunology. 12, 19 p., 672737.

CD8^{+} T cell landscape in Indigenous and non-Indigenous people restricted by influenza mortality-associated HLA-A*24:02 allomorph
Hensen, L., Illing, P. T., Bridie Clemens, E., Nguyen, T. H. O., Koutsakos, M., van de Sandt, C. E., Mifsud, N. A., Nguyen, A. T., Szeto, C., Chua, B. Y., Halim, H., Rizzetto, S., Luciani, F., Loh, L., Grant, E. J., Saunders, P. M., Brooks, A. G., Rockman, S., Kotsimbos, T. C. & Cheng, A. C. & 16 others, Richards, M., Westall, G. P., Wakim, L. M., Loudovaris, T., Mannering, S. I., Elliott, M., Tangye, S. G., Jackson, D. C., Flanagan, K. L., Rossjohn, J., Gras, S., Davies, J., Miller, A., Tong, S. Y. C., Purcell, A. W. & Kedzierska, K., 18 May 2021, In: Nature Communications. 12, 1, 20 p., 2931.

Direct priming of CD8+ T cells persists in the face of cowpox virus inhibitors of antigen presentation
Lin, L. C. W., Croft, S. N., Croft, N. P., Wong, Y. C., Smith, S. A., Tang, S. S., Purcell, A. W. & Tscharke, D. C., May 2021, In: Journal of Virology. 95, 10, 15 p., e00186-21.

PCprophet: a framework for protein complex prediction and differential analysis using proteomic data
Fossati, A., Li, C., Uliana, F., Wendt, F., Frommelt, F., Sykacek, P., Heusel, M., Hallal, M., Bludau, I., Capraz, T., Xue, P., Song, J., Wollscheid, B., Purcell, A. W., Gstaiger, M. & Aebersold, R., May 2021, In: Nature Methods. 18, 5, p. 520-527 8 p.

Spliced HLA-bound peptides: a Black Swan event in immunology
Faridi, P., Dorvash, M. & Purcell, A. W., May 2021, In: Clinical & Experimental Immunology. 204, 2, p. 179-188 10 p.

The shared susceptibility epitope of HLA-DR4 binds citrullinated self-antigens and the TCR
Lim, J. J., Jones, C. M., Loh, T. J., Ting, Y. T., Zareie, P., Loh, K. L., Felix, N. J., Suri, A., McKinnon, M., Stevenaert, F., Sharma, R. K., Klareskog, L., Malmström, V., Baker, D. G., Purcell, A. W., Reid, H. H., La Gruta, N. L. & Rossjohn, J., 30 Apr 2021, In: Science Immunology. 6, 58, 16 p., eabe0896.

IFNγ Modulates the Immunopeptidome of Triple Negative Breast Cancer Cells by Enhancing and Diversifying Antigen Processing and Presentation
Goncalves, G., Mullan, K. A., Duscharla, D., Ayala, R., Croft, N. P., Faridi, P. & Purcell, A. W., 22 Apr 2021, In: Frontiers in Immunology. 12, 13 p., 645770.

Carbamazepine Induces Focused T Cell Responses in Resolved Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis Cases But Does Not Perturb the Immunopeptidome for T Cell Recognition
Mifsud, N. A., Illing, P. T., Lai, J. W., Fettke, H., Hensen, L., Huang, Z., Rossjohn, J., Vivian, J. P., Kwan, P. & Purcell, A. W., 12 Apr 2021, In: Frontiers in Immunology. 12, 20 p., 653710.

Isolation of HLA Bound Peptides by Immunoaffinity Capture and Identification by Mass Spectrometry
Pandey, K., Ramarathinam, S. H. & Purcell, A. W., Mar 2021, In: Current Protocols. 1, 3, 18 p., e92.

ggVolcanoR: A Shiny app for customizable visualization of differential expression datasets
Mullan, K. A., Bramberger, L. M., Munday, P. R., Goncalves, G., Revote, J., Mifsud, N. A., Illing, P. T., Anderson, A., Kwan, P., Purcell, A. W. & Li, C., Jan 2021, In: Computational and Structural Biotechnology Journal. 19, p. 5735-5740 6 p.

The complexity of T cell–mediated penicillin hypersensitivity reactions
Goh, S. J. R., Tuomisto, J. E. E., Purcell, A. W., Mifsud, N. A. & Illing, P. T., Jan 2021, In: Allergy. 76, 1, p. 150-167 18 p.

Immunopeptidogenomics: Harnessing RNA-Seq to illuminate the dark immunopeptidome
Scull, K. E., Pandey, K., Ramarathinam, S. H. & Purcell, A. W., 2021, In: Molecular and Cellular Proteomics. 20, 16 p., 100143.

Thermostability profiling of MHC-bound peptides: a new dimension in immunopeptidomics and aid for immunotherapy design
Jappe, E. C., Garde, C., Ramarathinam, S. H., Passantino, E., Illing, P. T., Mifsud, N. A., Trolle, T., Kringelum, J. V., Croft, N. P. & Purcell, A. W., 9 Dec 2020, In: Nature Communications. 11, 1, 9 p., 6305.

RNF41 regulates the damage recognition receptor Clec9A and antigen cross-presentation in mouse dendritic cells
Tullett, K. M., Tan, P. S., Park, H. Y., Schittenhelm, R. B., Michael, N., Li, R., Policheni, A. N., Gruber, E., Huang, C., Fulcher, A. J., Danne, J. C., Czabotar, P. E., Wakim, L. M., Mintern, J. D., Ramm, G., Radford, K. J., Caminschi, I., O'Keeffe, M., Villadangos, J. A. & Wright, M. D. & 7 others, Blewitt, M. E., Heath, W. R., Shortman, K., Purcell, A. W., Nicola, N. A., Zhang, J.-G. & Lahoud, M. H., 2 Dec 2020, In: eLife. 9, 31 p., e63452.

Overlapping Peptides Elicit Distinct $CD8^+$ T Cell Responses following Influenza A Virus Infection
Assmus, L. M., Guan, J., Wu, T., Farenc, C., Sng, X. Y. X., Zareie, P., Nguyen, A., Nguyen, A. T., Tscharke, D. C., Thomas, P. G., Rossjohn, J., Gras, S., Croft, N. P., Purcell, A. W. & La Gruta, N. L., 1 Oct 2020, In: Journal of Immunology. 205, 7, p. 1731-1742 12 p.

Identification of Flucloxacillin-Haptenated HLA-B*57:01 Ligands: Evidence of Antigen Processing and Presentation
Waddington, J. C., Meng, X., Illing, P. T., Tailor, A., Adair, K., Whitaker, P., Hamlett, J., Jenkins, R. E., Farrell, J., Berry, N., Purcell, A. W., Naisbitt, D. J. & Park, B. K., Oct 2020, In: Toxicological Sciences. 177, 2, p. 454-465 12 p.

Spliced peptides and cytokine-driven changes in the immunopeptidome of melanoma
Faridi, P., Woods, K., Ostrouska, S., Deceneux, C., Aranha, R., Duscharla, D., Wong, S. Q., Chen, W., Ramarathinam, S. H., Lim Kam Sian, T. C. C., Croft, N. P., Li, C., Ayala, R., Cebon, J. S., Purcell, A. W., Schittenhelm, R. B. & Behren, A., Oct 2020, In: Cancer Immunology Research. 8, 10, p. 1322-1334 13 p.

A shared TCR bias toward an immunogenic EBV epitope dominates in HLA-B*07: 02-Expressing individuals
Rowntree, L. C., Nguyen, T. H. O., Farenc, C., Halim, H., Hensen, L., Rossjohn, J., Kotsimbos, T. C., Purcell, A. W., Kedzierska, K., Gras, S. & Mifsud, N. A., 15 Sept 2020, In: Journal of Immunology. 205, 6, p. 1524-1534 11 p.

HLA class ii specificity assessed by high-density peptide microarray interactions
Osterbye, T., Nielsen, M., Dudek, N. L., Ramarathinam, S. H., Purcell, A. W., Schafer-Nielsen, C. & Buus, S., 1 Jul 2020, In: Journal of Immunology. 205, 1, p. 290-299 10 p.

Immunopeptidomic Analysis Reveals That Deamidated HLA-bound Peptides Arise Predominantly from Deglycosylated Precursors
Mei, S., Ayala, R., Ramarathinam, S. H., Illing, P. T., Faridi, P., Song, J., Purcell, A. W. & Croft, N. P., 1 Jul 2020, In: Molecular and Cellular Proteomics. 19, 7, p. 1236-1247 12 p.

A comprehensive review and performance evaluation of bioinformatics tools for HLA class I peptide-binding prediction
Mei, S., Li, F., Leier, A., Marquez-Lago, T. T., Giam, K., Croft, N. P., Akutsu, T., Smith, A. I., Li, J., Rossjohn, J., Purcell, A. W. & Song, J., Jul 2020, In: Briefings in Bioinformatics. 21, 4, p. 1119-1135 17 p., bbz051.

In-depth mining of the immunopeptidome of an acute myeloid leukemia cell line using complementary ligand enrichment and data acquisition strategies
Pandey, K., Mifsud, N. A., Lim Kam Sian, T. C. C., Ayala, R., Ternette, N., Ramarathinam, S. H. & Purcell, A. W., Jul 2020 , In: Molecular Immunology. 123, p. 7-17 11 p.

A Natural Peptide Antigen within the Plasmodium Ribosomal Protein RPL6 Confers Liver T_{RM} Cell-Mediated Immunity against Malaria in Mice
Valencia-Hernandez, A. M., Ng, W. Y., Ghazanfari, N., Ghilas, S., de Menezes, M. N., Holz, L. E., Huang, C., English, K., Naung, M., Tan, P. S., Tullett, K. M., Steiner, T. M., Enders, M. H., Beattie, L., Chua, Y. C., Jones, C. M., Cozijnsen, A., Mollard, V., Cai, Y. & Bowen, D. G. & 15 others, Purcell, A. W., La Gruta, N. L., Villadangos, J. A., de Koning-Ward, T., Barry, A. E., Barchet, W., Cockburn, I. A., McFadden, G. I., Gras, S., Lahoud, M. H., Bertolino, P., Schittenhelm, R. B., Caminschi, I., Heath, W. R. & Fernandez-Ruiz, D., 10 Jun 2020, In: Cell Host and Microbe. 27, 6, p. 950-962 13 p.

The Choice of HLA-Associated Peptide Enrichment and Purification Strategy Affects Peptide Yields and Creates a Bias in Detected Sequence Repertoire
Nicastri, A., Liao, H., Muller, J., Purcell, A. W. & Ternette, N., Jun 2020, In: Proteomics. 20, 12, 6 p., 1900401.

Benchmarking predictions of MHC class I restricted T cell epitopes in a comprehensively studied model system
Paul, S., Croft, N. P., Purcell, A. W., Tscharke, D. C., Sette, A., Nielsen, M. & Peters, B., 26 May 2020, In: PLoS Computational Biology. 16, 5, 18 p., e1007757.

The molecular basis of how buried human leukocyte antigen polymorphism modulates natural killer cell function
Saunders, P. M., MacLachlan, B. J., Pymm, P., Illing, P. T., Deng, Y., Wong, S. C., Oates, C. V. L., Purcell, A. W., Rossjohn, J., Vivian, J. P. & Brooks, A. G., 26 May 2020, In: Proceedings of the National Academy of Sciences of the United States of America. 117, 21, p. 11636-11647 12 p., A63.

Tentacle Transcriptomes of the Speckled Anemone (Actiniaria: Actiniidae: *Oulactis* sp.): Venom-Related Components and Their Domain Structure
Mitchell, M. L., Tonkin-Hill, G. Q., Morales, R. A. V., Purcell, A. W., Papenfuss, A. T. & Norton, R. S., Apr 2020, In: Marine Biotechnology. 22, p. 207-219 13 p.

Acute experimental infection of bats and ferrets with Hendra virus: Insights into the early host response of the reservoir host and susceptible model species
Woon, A. P., Boyd, V., Todd, S., Smith, I., Klein, R., Woodhouse, I. B., Riddell, S., Crameri, G., Bingham, J., Wang, L. F., Purcell, A. W., Middleton, D. & Baker, M. L., 30 Mar 2020, In: PLoS Pathogens. 16, 3, 22 p., e1008412.

Modification of the cyclopropyl moiety of abacavir provides insight into the structure activity relationship between HLA-B*57:01 binding and T-cell activation
Thomson, P. J., Illing, P. T., Farrell, J., Alhaidari, M., Bell, C. C., Berry, N., O'Neill, P. M., Purcell, A. W., Park, K. B. & Naisbitt, D. J., Mar 2020, In: Allergy. 75, 3, p. 636-647 12 p.

Preferential HLA-B27 Allorecognition Displayed by Multiple Cross-Reactive Antiviral CD8$^+$ T Cell Receptors
Rowntree, L. C., van den Heuvel, H., Sun, J., D'Orsogna, L. J., Nguyen, T. H. O., Claas, F. H. J., Rossjohn, J., Kotsimbos, T. C., Purcell, A. W. & Mifsud, N. A., 19 Feb 2020, In: Frontiers in Immunology. 11, 13 p., 248.

Human Plasma Protein Corona of Aβ Amyloid and Its Impact on Islet Amyloid Polypeptide Cross-Seeding
Nandakumar, A., Xing, Y., Aranha, R. R., Faridi, A., Kakinen, A., Javed, I., Koppel, K., Pilkington, E. H., Purcell, A. W., Davis, T. P., Faridi, P., Ding, F. & Ke, P. C., 10 Feb 2020, In: Biomacromolecules. 21, 2, p. 988-998 11 p.

T cell receptor cross-reactivity between gliadin and bacterial peptides in celiac disease
Petersen, J., Ciacchi, L., Tran, M. T., Loh, K. L., Kooy-Winkelaar, Y., Croft, N. P., Hardy, M. Y., Chen, Z., McCluskey, J., Anderson, R. P., Purcell, A. W., Tye-Din, J. A., Koning, F., Reid, H. H. & Rossjohn, J., Jan 2020, In: Nature Structural and Molecular Biology. 27, p. 49-61 13 p.

Allelic association with ankylosing spondylitis fails to correlate with human leukocyte antigen B27 homodimer formation
Lim Kam Sian, T. C. C., Indumathy, S., Halim, H., Greule, A., Cryle, M. J., Bowness, P., Rossjohn, J., Gras, S., Purcell, A. W. & Schittenhelm, R. B., 27 Dec 2019, In: Journal of Biological Chemistry. 294, 52, p. 20185-20195 11 p.

A class of γδ T cell receptors recognize the underside of the antigen-presenting molecule MR1
Le Nours, J., Gherardin, N. A., Ramarathinam, S. H., Awad, W., Wiede, F., Gully, B. S., Khandokar, Y., Praveena, T., Wubben, J. M., Sandow, J. J., Webb, A. I., von Borstel, A., Rice, M. T., Redmond, S. J., Seneviratna, R., Sandoval-Romero, M. L., Li, S., Souter, M. N. T., Eckle, S. B. G. & Corbett, A. J. & 15 others, Reid, H. H., Liu, L., Fairlie, D. P., Giles, E. M., Westall, G. P., Tothill, R. W., Davey, M. S., Berry, R., Tiganis, T., McCluskey, J., Pellicci, D. G., Purcell, A. W. , Uldrich, A. P., Godfrey, D. I. & Rossjohn, J., 20 Dec 2019, In: Science. 366, 6472, p. 1522-1527 6 p.

Twenty years of bioinformatics research for protease-specific substrate and cleavage site prediction: a comprehensive revisit and benchmarking of existing methods
Li, F., Wang, Y., Li, C., Marquez-Lago, T. T., Leier, A., Rawlings, N. D., Haffari, G., Revote, J., Akutsu, T., Chou, K.-C., Purcell, A. W., Pike, R. N., Webb, G. I., Smith, A. I., Lithgow, T., Daly, R. J., Whisstock, J. C. & Song, J., 27 Nov 2019, In: Briefings in Bioinformatics. 20, 6, p. 2150-2166 17 p.

Differential Roles of Plasma Protein Corona on Immune Cell Association and Cytokine Secretion of Oligomeric and Fibrillar Beta-Amyloid
Faridi, A., Yang, W., Kelly, H. G., Wang, C., Faridi, P., Purcell, A. W., Davis, T. P., Chen, P., Kent, S. J. & Ke, P. C., 11 Nov 2019, In: Biomacromolecules. 20, 11, p. 4208-4217 10 p.

Graphene quantum dots rescue protein dysregulation of pancreatic β-cells exposed to human islet amyloid polypeptide
Faridi, A., Sun, Y., Mortimer, M., Aranha, R. R., Nandakumar, A., Li, Y., Javed, I., Kakinen, A., Fan, Q., Purcell, A. W., Davis, T. P., Ding, F., Faridi, P. & Ke, P. C., Nov 2019, In: Nano Research. 12, 11, p. 2827-2834 8 p.

Synergistic Combination of Polymyxin B and Enrofloxacin Induced Metabolic Perturbations in Extensive Drug-resistant Pseudomonas aeruginosa
Lin, Y.-W., Han, M.-L., Zhao, J., Zhu, Y., Rao, G., Forrest, A., Song, J., Kaye, K. S., Hertzog, P., Purcell, A., Creek, D., Zhou, T. Q., Velkov, T. & Li, J., 3 Oct 2019, In: Frontiers in Pharmacology. 10, 11 p., 1146.

Response to Comment on "A subset of HLA-I peptides are not genomically templated: Evidence for cis- and trans-spliced peptide ligands"
Faridi, P., Li, C., Ramarathinam, S. H., Illing, P. T., Mifsud, N. A., Ayala, R., Song, J., Gearing, L. J., Croft, N. P. & Purcell, A. W., 16 Aug 2019, In: Science Immunology. 4, 38, 4 p., eaaw8457.

Improved peptide-MHC class II interaction prediction through integration of eluted ligand and peptide affinity data
Garde, C., Ramarathinam, S. H., Jappe, E. C., Nielsen, M., Kringelum, J. V., Trolle, T. & Purcell, A. W., 1 Jul 2019, In: Immunogenetics. 71, 7, p. 445-454 10 p.

Quantification of epitope abundance reveals the effect of direct and cross-presentation on influenza CTL responses
Wu, T., Guan, J., Handel, A., Tscharke, D. C., Sidney, J., Sette, A., Wakim, L. M., Sng, X. Y. X., Thomas, P. G., Croft, N. P., Purcell, A. W. & La Gruta, N. L., 28 Jun 2019, In: Nature Communications. 10, 1, 14 p., 2846.

HLA-associated antiepileptic drug-induced cutaneous adverse reactions
Mullan, K. A., Anderson, A., Illing, P. T., Kwan, P., Purcell, A. W. & Mifsud, N. A., Jun 2019, In: HLA. 93, 6, p. 417-435 19 p.

Mass spectrometry–based identification of MHC-bound peptides for immunopeptidomics
Purcell, A. W., Ramarathinam, S. H. & Ternette, N., Jun 2019, In: Nature Protocols. 14, 6, p. 1687-1707 21 p.

Downregulation of MHC Class I Expression by Influenza A and B Viruses
Koutsakos, M., McWilliam, H. E. G., Aktepe, T. E., Fritzlar, S., Illing, P. T., Mifsud, N. A., Purcell, A. W., Rockman, S., Reading, P. C., Vivian, J. P., Rossjohn, J., Brooks, A. G., Mackenzie, J. M., Mintern, J. D., Villadangos, J. A., Nguyen, T. H. O. & Kedzierska, K., 29 May 2019, In: Frontiers in Immunology. 10, 12 p., 1158.

The Evolving Landscape of Autoantigen Discovery and Characterization in Type 1 Diabetes
Purcell, A. W., Sechi, S. & DiLorenzo, T. P., 1 May 2019, In: Diabetes. 68, 5, p. 879-886 8 p.

Amyloid Self-Assembly of hIAPP8-20 via the Accumulation of Helical Oligomers, α-Helix to β-Sheet Transition, and Formation of β-Barrel Intermediates
Sun, Y., Kakinen, A., Xing, Y., Faridi, P., Nandakumar, A., Purcell, A. W., Davis, T. P., Ke, P. C. & Ding, F., May 2019, In: Small. 15, 18, 10 p., 1805166.

Positive-unlabelled learning of glycosylation sites in the human proteome
Li, F., Zhang, Y., Purcell, A. W., Webb, G. I., Chou, K.-C., Lithgow, T., Li, C. & Song, J., 6 Mar 2019, In: BMC Bioinformatics. 20, 1, 17 p., 112.

Most viral peptides displayed by class I MHC on infected cells are immunogenic
Croft, N. P., Smith, S. A., Pickering, J., Sidney, J., Peters, B., Faridi, P., Witney, M. J., Sebastian, P., Flesch, I. E. A., Heading, S. L., Sette, A., La Gruta, N. L., Purcell, A. W. & Tscharke, D. C., 19 Feb 2019, In: Proceedings of the National Academy of Sciences of the United States of America. 116, 8, p. 3112-3117 6 p.

Human CD8 $^{+}$T cell cross-reactivity across influenza A, B and C viruses
Koutsakos, M., Illing, P. T., Nguyen, T. H. O., Mifsud, N. A., Crawford, J. C., Rizzetto, S., Eltahla, A. A., Clemens, E. B., Sant, S., Chua, B. Y., Wong, C. Y., Allen, E. K., Teng, D., Dash, P., Boyd, D. F., Grzelak, L., Zeng, W., Hurt, A. C., Barr, I. & Rockman, S. & 17 others, Jackson, D. C., Kotsimbos, T. C., Cheng, A. C., Richards, M., Westall, G. P., Loudovaris, T., Mannering, S. I., Elliott, M., Tangye, S. G., Wakim, L. M., Rossjohn, J., Vijaykrishna, D., Luciani, F., Thomas, P. G., Gras, S., Purcell, A. W. & Kedzierska, K., 18 Feb 2019, In: Nature Immunology. 20, p. 613-625 15 p.

Physical and toxicological profiles of human IAPP amyloids and plaques
Kakinen, A., Sun, Y., Javed, I., Faridi, A., Pilkington, E. H., Faridi, P., Purcell, A. W., Zhou, R., Ding, F., Lin, S., Ke , P. C. & Davis, T. P., 15 Jan 2019, In: Science Bulletin. 64, 1, p. 26-35 10 p.

Comparative metabolomics and transcriptomics reveal multiple pathways associated with polymyxin killing in pseudomonas aeruginosa
Han, M.-L., Zhu, Y., Creek, D. J., Lin, Y.-W., Gutu, A. D., Hertzog, P., Purcell, T., Shen, H.-H., Moskowitz, S. M., Velkov, T. & Li, J., 1 Jan 2019, In: mSystems. 4, 1, 18 p., e00149-18.

The three-dimensional structure of an H-superfamily conotoxin reveals a granulin fold arising from a common ICK cysteine framework
Nielsen, L. D., Foged, M. M., Albert, A., Bertelsen, A. B., Søltoft, C. L., Robinson, S. D., Petersen, S. V., Purcell, A. W., Olivera, B. M., Norton, R. S., Vasskog, T., Safavi-Hemami, H., Teilum, K. & Ellgaard, L., 1 Jan 2019, In: Journal of Biological Chemistry. 294, 22, p. 8745-8759 15 p.

Quokka: A comprehensive tool for rapid and accurate prediction of kinase family-specific phosphorylation sites in the human proteome
Li, F., Li, C., Marquez-Lago, T. T., Leier, A., Akutsu, T., Purcell, A. W., Smith, A. I., Lithgow, T., Daly, R. J., Song, J. & Chou, K.-C., 15 Dec 2018, In: Bioinformatics. 34, 24, p. 4223-4231 9 p., bty522.

The use of proteomics to understand antiviral immunity
Woon, A. P. & Purcell, A. W., 1 Dec 2018, In: Seminars in Cell & Developmental Biology. 84, p. 22-29 8 p.

Mitigating Human IAPP Amyloidogenesis In Vivo with Chiral Silica Nanoribbons
Faridi, A., Sun, Y., Okazaki, Y., Peng, G., Gao, J., Kakinen, A., Faridi, P., Zhao, M., Javed, I., Purcell, A. W., Davis, T. P., Lin, S., Oda, R., Ding, F. & Ke , P. C., 22 Nov 2018, In: Small. 14, 47, 13 p., 1802825.

HLA-B57 micropolymorphism defines the sequence and conformational breadth of the immunopeptidome
Illing, P. T., Pymm, P., Croft, N. P., Hilton, H. G., Jojic, V., Han, A. S., Mendoza, J. L., Mifsud, N. A., Dudek, N. L., McCluskey, J., Parham, P., Rossjohn, J., Vivian, J. P. & Purcell, A. W., 8 Nov 2018, In: Nature Communications. 9, 1, 13 p., 4693.

A subset of HLA-I peptides are not genomically templated: Evidence for cis- and trans-spliced peptide ligands
Faridi, P., Li, C., Ramarathinam, S. H., Vivian, J. P., Illing, P. T., Mifsud, N. A., Ayala, R., Song, J., Gearing, L. J., Hertzog, P. J., Ternette, N., Rossjohn, J., Croft, N. P. & Purcell, A. W., 12 Oct 2018, In: Science Immunology. 3, 28, 12 p., eaar3947.

Employing proteomics in the study of antigen presentation: an update
Ramarathinam, S. H., Croft, N. P., Illing, P. T., Faridi, P. & Purcell, A. W., 13 Aug 2018, In: Expert Review of Proteomics. 15, 8, p. 637-645 9 p.

Viral regulation of host cell biology by hijacking of the nucleolar DNA-damage response
Rawlinson, S. M., Zhao, T., Rozario, A. M., Rootes, C. L., McMillan, P. J., Purcell, A. W., Woon, A., Marsh, G. A., Lieu, K. G., Wang, L.-F., Netter, H. J., Bell, T. D. M., Stewart, C. R. & Moseley, G. W., 3 Aug 2018, In: Nature Communications. 9, 1, 12 p., 3057.

Isolation of T cell receptors targeting recurrent neoantigens in hematological malignancies
Tubb, V. M., Schrikkema, D. S., Croft, N. P., Purcell, A. W., Linnemann, C., Freriks, M. R., Chen, F., Long, H. M., Lee, S. P. & Bendle, G. M., 13 Jul 2018, In: Journal for ImmunoTherapy of Cancer. 6, 1, 14 p., 70.

Inability to detect cross-reactive memory T cells challenges the frequency of heterologous immunity among common viruses
Rowntree, L. C., Nguyen, T. H. O., Halim, H., Purcell, A. W., Rossjohn, J., Gras, S., Kotsimbos, T. C. & Mifsud, N. A., 15 Jun 2018, In: Journal of Immunology. 200, 12, p. 3993-4003 11 p.

Immunopeptidomics Special Issue
Ternette, N. & Purcell, A. W., 1 Jun 2018, In: Proteomics. 18, 12, 4 p., 1800145.

In Immunopeptidomics We Need a Sniper Instead of a Shotgun
Faridi, P., Purcell, A. W. & Croft, N. P., 1 Jun 2018, In: Proteomics. 18, 12, 4 p., 1700464.

Minimal Information About an Immuno-Peptidomics Experiment (MIAIPE)
Lill, J. R., Van Veelen, P. A., Tenzer, S., Admon, A., Caron, E., Elias, J. E., Heck, A. J. R., Marcilla, M., Marino, F., Müller, M., Peters, B., Purcell, A., Sette, A., Sturm, T., Ternette, N. & Vizcaino, J. A., 1 Jun 2018, In: Proteomics. 18, 12, 7 p., 1800110.

Identification of native and posttranslationally modified HLA-B*57:01- restricted HIV envelope derived epitopes using immunoproteomics
Ramarathinam, S. H., Gras, S., Alcantara, S., Yeung, A. W. S., Mifsud, N. A., Sonza, S., Illing, P., Glaros, E. N., Center, R. J., Thomas, S. R., Kent, S. J., Ternette, N., Purcell, D. F. J., Rossjohn, J. & Purcell, A. W., Jun 2018, In: Proteomics. 18 , 12, 11 p., 1700253.

Tadpole-like Conformations of Huntingtin Exon 1 Are Characterized by Conformational Heterogeneity that Persists regardless of Polyglutamine Length
Newcombe, E. A., Ruff, K. M., Sethi, A., Ormsby, A. R., Ramdzan, Y. M., Fox, A. H., Purcell, A. W., Gooley, P. R., Pappu, R. V. & Hatters, D. M., 11 May 2018, In: Journal of Molecular Biology. 430, 10, p. 1442-1458 17 p.

T cell autoreactivity directed toward CD1c itself rather than toward carried self lipids
Wun, K. S., Reijneveld, J. F., Cheng, T. Y., Ladell, K., Uldrich, A. P., Le Nours, J., Miners, K. L., McLaren, J. E., Grant, E. J., Haigh, O. L., Watkins, T. S., Suliman, S., Iwany, S., Jimenez, J., Calderon, R., Tamara, K. L., Leon, S. R., Murray, M. B., Mayfield, J. A. & Altman, J. D. & 8 others, Purcell, A. W., Miles, J. J., Godfrey, D. I., Gras, S., Price, D. A., Van Rhijn, I., Moody, D. B. & Rossjohn, J., 1 Apr 2018, In: Nature Immunology. 19, 4, p. 397-406 10 p.

The use of CRISPR/Cas9 gene editing to confirm congenic contaminations in host-pathogen interaction studies
Ferrand, J., Croft, N. P., Pépin, G., Diener, K. R., Wu, D., Mangan, N. E., Pedersen, J., Behlke, M. A., Hayball, J. D., Purcell, A. W., Ferrero, R. L. & Gantier, M. P., 19 Mar 2018, In: Frontiers in Cellular and Infection Microbiology. 8, 10 p., 87.

The interplay between citrullination and HLA-DRB1 polymorphism in shaping peptide binding hierarchies in rheumatoid arthritis
Ting, Y. T., Petersen, J., Ramarathinam, S. H., Scally, S. W., Loh, K. L., Thomas, R., Suri, A., Baker, D. G., Purcell, A. W. , Reid, H. H. & Rossjohn, J., 2 Mar 2018, In: Journal of Biological Chemistry. 293, 9, p. 3236-3251 16 p.

Reply to Roudier et al. HLA-DRB1 polymorphism, anti-citrullinated protein antibodies, and rheumatoid arthritis
Ting, Y. T., Purcell, A. W., Reid, H. H. & Rossjohn, J., 1 Jan 2018, In: Journal of Biological Chemistry. 293, 18, 1 p.

The SysteMHC Atlas project
Shao, W., Pedrioli, P. G. A., Wolski, W., Scurtescu, C., Schmid, E., Vizcaíno, J. A., Courcelles, M., Schuster, H., Kowalewski, D., Marino, F., Arlehamn, C. S. L., Vaughan, K., Peters, B., Sette, A., Ottenhoff, T. H. M., Meijgaarden, K. E., Nieuwenhuizen, N., Kaufmann, S. H. E., Schlapbach, R. & Castle, J. C. & 26 others, Nesvizhskii, A. I., Nielsen, M., Deutsch, E. W., Campbell, D. S., Moritz, R. L., Zubarev, R. A., Ytterberg, A. J., Purcell, A. W., Marcilla, M., Paradela, A., Wang, Q., Costello, C. E., Ternette, N., Van Veelen, P. A., Van Els, C. A. C. M., Heck, A. J. R., De Souza, G. A., Sollid, L. M., Admon, A., Stevanovic, S., Rammensee, H. G., Thibault, P., Perreault, C., Bassani-Sternberg, M., Aebersold, R. & Caron, E., 1 Jan 2018, In: Nucleic Acids Research. 46, D1, p. D1237-D1247 11 p.

Comparative transcriptomics highlights the role of the activator protein 1 transcription factor in the host response to Ebolavirus
Wynne, J. W., Todd, S., Boyd, V., Tachedjian, M., Klein, R., Shiell, B., Dearnley, M., McAuley, A. J., Woon, A. P., Purcell, A. W., Marsh, G. A. & Baker, M. L., 1 Dec 2017, In: Journal of Virology. 91, 23, 21 p., e01174-17.

The molecular basis for peptide repertoire selection in the human leucocyte antigen (HLA) C*06: 02 molecule
Mobbs, J. I., Illing, P. T., Dudek, N. L., Brooks, A. G., Baker, D. G., Purcell, A. W., Rossjohn, J. & Vivian, J. P., 20 Oct 2017, In: Journal of Biological Chemistry. 292, 42, p. 17203-17215 13 p.

The role of HLA genes in pharmacogenomics: unravelling HLA associated adverse drug reactions
Illing, P. T., Purcell, A. W. & McCluskey, J., Aug 2017, In: Immunogenetics. 69, 8-9, p. 617-630 14 p.

Structural and regulatory diversity shape HLA-C protein expression levels
Kaur, G., Gras, S., Mobbs, J. I., Vivian, J. P., Cortes, A., Barber, T., Kuttikkatte, S. B., Jensen, L. T., Attfield, K. E., Dendrou, C. A., Carrington, M., McVean, G., Purcell, A. W., Rossjohn, J. & Fugger, L., 26 Jun 2017, In: Nature Communications. 8, 12 p., 15924.

Dominant protection from HLA-linked autoimmunity by antigen-specific regulatory T cells
Ooi, J. D., Petersen, J., Tan, Y. H., Huynh, M., Willett, Z. J., Ramarathinam, S. H., Eggenhuizen, P. J., Loh, K. L., Watson, K. A., Gan, P. Y., Alikhan, M. A., Dudek, N. L., Handel, A., Hudson, B. G., Fugger, L., Power, D. A., Holt, S. G., Coates, P. T., Gregersen, J. W. & Purcell, A. W. & 5 others, Holdsworth, S. R., La Gruta, N. L., Reid, H. H., Rossjohn, J. & Kitching, A. R., 11 May 2017, In: Nature. 545, 7653, p. 243-247 5 p.

Huntingtin Inclusions Trigger Cellular Quiescence, Deactivate Apoptosis, and Lead to Delayed Necrosis
Ramdzan, Y. M., Trubetskov, M. M., Ormsby, A. R., Newcombe, E. A., Sui, X., Tobin, M. J., Bongiovanni, M. N., Gras, S. L., Dewson, G., Miller, J. M. L., Finkbeiner, S., Moily, N. S., Niclis, J., Parish, C. L., Purcell, A. W., Baker, M. J., Wilce, J. A., Waris, S., Stojanovski, D. & Böcking, T. & 4 others, Ang, C.-S., Ascher, D. B., Reid, G. E. & Hatters, D. M., 2 May 2017 , In: Cell Reports. 19, 5, p. 919-927 9 p.

Hormone-like peptides in the venoms of marine cone snails
Robinson, S. D., Li, Q., Bandyopadhyay, P. K., Gajewiak, J., Yandell, M., Papenfuss, A. T., Purcell, A., Norton, R. S. & Safavi-Hemami, H., 1 Apr 2017, In: General and Comparative Endocrinology. 244, p. 11-18 8 p.

Drugs and drug-like molecules can modulate the function of mucosal-associated invariant T cells
Keller, A. N., Eckle, S. B. G., Xu, W., Liu, L., Hughes, V. A., Mak, J. Y. W., Meehan, B. S., Pediongco, T., Birkinshaw, R. W., Chen, Z., Wang, H., D'Souza, C., Kjer-Nielsen, L., Gherardin, N. A., Godfrey, D. I., Kostenko, L., Corbett, A. J., Purcell, A. W., Fairlie, D. P. & McCluskey, J. & 1 others, Rossjohn, J., Apr 2017, In: Nature Immunology. 18, 4, p. 402-411 14 p.

MHC-I peptides get out of the groove and enable a novel mechanism of HIV-1 escape
Pymm, P., Illing, P. T., Ramarathinam, S. H., O'Connor, G. M., Hughes, V. A., Hitchen, C., Price, D. A., Ho, B. K., McVicar, D. W., Brooks, A. G., Purcell, A. W., Rossjohn, J. & Vivian, J. P., Apr 2017, In: Nature Structural and Molecular Biology. 24 , 4, p. 387-394 8 p.

HIVed, a knowledgebase for differentially expressed human genes and proteins during HIV infection, replication and latency
Li, C., Ramarathinam, S. H., Revote, J., Khoury, G., Song, J. & Purcell, A. W., 30 Mar 2017, In: Scientific Reports. 7, 45509.

New Approaches to Investigate Drug-Induced Hypersensitivity
Ogese, M. O., Ahmed, S., Alferivic, A., Betts, C. J., Dickinson, A., Faulkner, L., French, N., Gibson, A., Hirschfield, G. M., Kammüller, M., Meng, X., Martin, S. F., Musette, P., Norris, A., Pirmohamed, M., Park, B. K., Purcell, A. W., Spraggs, C. F., Whritenour, J. & Naisbitt, D. J., 17 Jan 2017, In: Chemical Research in Toxicology. 30, 1, p. 239-259 21 p.

The use of imaging mass spectrometry to study peptide toxin distribution in Australian sea anemones
Mitchell, M. L., Hamilton, B. R., Madio, B., Morales, R. A. V., Tonkin-Hill, G. Q., Papenfuss, A. T., Purcell, A. W., King, G. F., Undheim, E. A. B. & Norton, R. S., 2017, In: Australian Journal of Chemistry. 70, 11, p. 1235-1237 3 p.

The primary immune response to Vaccinia virus vaccination includes cells with a distinct cytotoxic effector CD4 T-cell phenotype
PHIIDO Study Group, 17 Oct 2016, In: Vaccine. 34, 44, p. 5251-5261 11 p.

Allotype specific interactions of drugs and HLA molecules in hypersensitivity reactions
Illing, P. T., Mifsud, N. A. & Purcell, A. W., Oct 2016, In: Current Opinion in Immunology. 42, p. 31-40 10 p.

CD1a on Langerhans cells controls inflammatory skin disease
Kim, J. H., Hu, Y., Yongqing, T., Kim, J., Hughes, V. A., Le Nours, J., Marquez, E. A., Purcell, A. W., Wan, Q., Sugita, M., Rossjohn, J. & Winau, F., Oct 2016, In: Nature Immunology. 17, 10, p. 1159-1166 8 p.

Conserved Features in the Structure, Mechanism, and Biogenesis of the Inverse Autotransporter Protein Family
Heinz, E., Stubenrauch, C. J., Grinter, R., Croft, N. P., Purcell, A. W., Strugnell, R. A., Dougan, G. & Lithgow, T., 13 Jun 2016, In: Genome Biology and Evolution. 8, 6, p. 1690-1705 16 p.

Anthelmintic closantel enhances bacterial killing of polymyxin B against multidrug-resistant *Acinetobacter baumannii*
Tran, T. B., Cheah, S.-E., Yu, H. H., Bergen, P. J., Nation, R. L., Creek, D. J., Purcell, A., Forrest, A., Doi, Y., Song, J., Velkov, T. & Li, J., 1 Jun 2016, In: Journal of Antibiotics. 69, 6, p. 415-421 7 p.

Characterization of the antigen processing machinery and endogenous peptide presentation of a Bat MHC class I molecule
Wynne, J. W., Woon, A. P., Dudek, N. L., Croft, N. P., Ng, J. H. J., Baker, M. L., Wang, L.-F. & Purcell, A. W., 1 Jun 2016, In: Journal of Immunology. 196, 11, p. 4468-4476 9 p.

Human leukocyte antigen (HLA) B27 allotype-specific binding and candidate arthritogenic peptides revealed through heuristic clustering of data-independent acquisition mass spectrometry (DIA-MS) data
Schittenhelm, R. B., Sivaneswaran, S., Lim Kam Sian, T. C. C., Croft, N. P. & Purcell, A. W., 1 Jun 2016, In: Molecular and Cellular Proteomics. 15, 6, p. 1867-1876 10 p.

Immunology by numbers: Quantitation of antigen presentation completes the quantitative milieu of systems immunology!
Purcell, A. W., Croft, N. P. & Tscharke, D. C., Jun 2016, In: Current Opinion in Immunology. 40, p. 88-95 8 p.

HLA and Drug Hypersensitivity
Illing, P. T., Mifsud, N. A., Vivian, J. P. & Purcell, A. W., 27 Apr 2016, *Molecular Immunology.* Academic Press, Vol. 2. p. 310-317 8 p.

Repertoire of Classical MHC Class I and Class II Molecules
Purcell, A. W. & Dudek, N. L., 27 Apr 2016, *Encyclopedia of Immunobiology: Reference Module in Biomedical Sciences.* Academic Press, Vol. 2. p. 200-208 9 p.

Repertoire of Nonclassical MHC I (HLA-E, HLA-F, HLA-G, and Orthologues)
Dudek, N. L. & Purcell, A. W., 27 Apr 2016, *Encyclopedia of Immunobiology: Reference Module in Biomedical Sciences.* Academic Press, Vol. 2. p. 215-219 5 p.

Rapid expansion of the protein disulfide isomerase gene family facilitates the folding of venom peptides
Safavi-Hemami, H., Li, Q., Jackson, R. L., Song, A. S., Boomsma, W., Bandyopadhyay, P. K., Gruber, C. W., Purcell, A. W., Yandell, M., Olivera, B. M. & Ellgaard, L., 22 Mar 2016, In: Proceedings of the National Academy of Sciences of the United States of America. 113, 12, p. 3227-3232 6 p.

Global metabolic analyses identify key differences in metabolite levels between polymyxin-susceptible and polymyxin-resistant *Acinetobacter baumannii*
Maifiah, M. H. M., Cheah, S.-E., Johnson, M. D., Han, M., Boyce, J. D., Thamlikitkul, V., Forrest, A., Kaye, K. S., Hertzog, P., Purcell, A. W., Song, J., Velkov, T., Creek, D. J. & Li, J., 29 Feb 2016, In: Scientific Reports. 6, 17 p., 22287.

Mismatch in epitope specificities between IFNγ inflamed and uninflamed conditions leads to escape from T lymphocyte killing in melanoma
Woods, K., Knights, A. J., Anaka, M., Schittenhelm, R. B., Purcell, A. W., Behren, A. & Cebon, J., 16 Feb 2016, In: Journal for ImmunoTherapy of Cancer. 4, 14 p., 10.

A naturally occurring peptide with an elementary single disulfide-directed β-hairpin fold
Robinson, S., Chhabra, S., Belgi, A., Chittoor, B., Safavi-Hemami, H., Robinson, A. J., Papenfuss, A. T., Purcell, A. & Norton, R., 2 Feb 2016, In: Structure. 24, 2, p. 293-299 7 p.

A prominent role of PDIA6 in processing of misfolded proinsulin
Gorasia, D. G., Dudek, N. L., Safavi-Hemami, H., Ayala-Perez, R., Schittenhelm, R. B., Saunders, P. M., Wee, S., Mangum, J. E., Hubbard, M. J. & Purcell, A. W., 2016, In: BBA Proteins and Proteomics. 1864, 6, p. 715 - 723 9 p.

A Systems Approach to Understand Antigen Presentation and the Immune Response
Dudek, N. L., Croft, N. P., Schittenhelm, R. B., Ramarathinam, S. H. & Purcell, A. W., 2016, *Proteomics in Systems Biology : Methods and Protocols.* Reinders, J. (ed.). USA: Springer, p. 189 - 210 22 p.

Defining the HLA class I-associated viral antigen repertoire from HIV-1-infected human cells
Ternette, N., Yang, H., Partridge, T., Llano, A., Cedeno, S., Fischer, R., Charles, P. D., Dudek, N. L., Mothe, B., Crespo, M., Fischer, W. M., Korber, B., Nielsen, M., Borrow, P., Purcell, A. W., Brander, C., Dorrell, L., Kessler, B. M. & Hanke, T.,

2016, In: European Journal of Immunology. 46, 1, p. 60-69 10 p.

C-terminal Src kinase-homologous kinase (CHK), a unique inhibitor inactivating multiple active conformations of Src family tyrosine kinases
Chong, Y.-P., Chan, A. S., Chan, K. C., Williamson, N. A., Lerner, E. C., Smithgall, T. E., Bjorge, J. D., Fujita, D. J., Purcell, A. W., Scholz, G., Mulhern, T. D. & Cheng, H.-C., 2 Jan 2015, In: Journal of Biological Chemistry. 290, 1, p. 240 1 p.

A comprehensive analysis of peptides presented by HLA-A1
Giam, K. L., Ayala-Perez, R., Illing, P. T. T., Schittenhelm, R. B., Croft, N. P., Purcell, A. W. & Dudek, N. L., 2015, In: Tissue Antigens. 85, 6, p. 492 - 496 5 p.

An open-source computational and data resource to analyze digital maps of immunopeptidomes
Caron, E., Espona, L., Kowalewski, D. J., Schuster, H., Ternette, N., Alpizar, A., Schittenhelm, R. B., Ramarathinam, S., Arlehamn, C. S. L., Koh, C. C. G., Gillet, L. C., Rabsteyn, A., Navarro, P., Kim, S., Lam, H. H. N., Sturm, T., Marcilla, M., Sette, A., Campbell, D. S. & Deutsch, E. W. & 5 others, Moritz, R. L., Purcell, A. W., Rammensee, H.-G., Stevanovic, S. & Aebersold, R., 2015, In: eLife. 4, July 2015, p. 1 - 17 17 p.

Assembly of the secretion pores GspD, Wza and CsgG into bacterial outer membranes does not require the Omp85 proteins BamA or TamA
Dunstan, R. A., Hay, I. D., Wilksch, J. J., Schittenhelm, R. B., Purcell, A. W., Clark, J. M., Costin, A., Ramm, G., Strugnell, R. A. & Lithgow, T. J., 2015, In: Molecular Microbiology. 97, 4, p. 616 - 629 14 p.

Citrullinated peptide dendritic cell immunotherapy in HLA risk genotype-positive rheumatoid arthritis patients
Benham, H., Nel, H. J., Law, S. C. C., Mehd, A. M., Street, S. E. A., Ramnoruth, N., Pahau, H., Lee, B. T., Ng, J., Brunck, M. E. G., Hyde, C., Trouw, L. A., Dudek, N. L., Purcell, A. W., O'Sullivan, B. J., Connolly, J. E., Paul, S. K., Cao, K.-A. L. & Thomas, R., 2015, In: Science Translational Medicine. 7, 290, p. 1 - 12 12 p.

Discovery by proteogenomics and characterization of an RF-amide neuropeptide from cone snail venom
Robinson, S., Safavi-Hemami, H., Raghuraman, S. C., Imperial, J. S., Papenfuss, A. T., Teichert, R. W., Purcell, A. W., Olivera, B. M. & Norton, R. S., 2015, In: Journal of Proteomics. 114, p. 38 - 47 10 p.

Ingestion of oats and barley in patients with celiac disease mobilizes cross-reactive T cells activated by avenin peptides and immuno-dominant hordein peptides
Hardy, M. Y., Tye-Din, J. A., Stewart, J. A., Schmitz, F., Dudek, N. L., Hanchapola, I., Purcell, A. W. & Anderson, R. P., 2015, In: Journal of Autoimmunity. 56, p. 56 - 65 10 p.

Pancreatic beta cells are highly susceptible to oxidative and ER stresses during the development of diabetes
Gorasia, D. G., Dudek, N. L., Veith, P. D., Shankar, R., Safavi-Hemami, H., Williamson, N. A., Reynolds, E. C., Hubbard, M. J. & Purcell, A. W., 2015, In: Journal of Proteome Research. 14, 2, p. 688 - 699 12 p.

Proinsulin-specific, HLA-DQ8, and HLA-DQ8-transdimer-restricted CD4+ T cells infiltrate islets in type 1 diabetes
Pathiraja, V., Kuehlich, J., Campbell, P. D., Krishnamurthy, B., Loudovaris, T., Coates, P. T. H., Brodnicki, T. C., O'Connell, P. J., Kedzierska, K., Rodda, C. P., Bergman, P. B., Hill, E., Purcell, A. W., Dudek, N. L., Thomas, H. E., Kay, T. W. H. & Mannering, S. I., 2015, In: Diabetes. 64, 1, p. 172 - 182 11 p.

Quantifying epitope presentation using mass spectrometry
Croft, N. P., Purcell, A. W. & Tscharke, D. C., 2015, In: Molecular Immunology. 68, 2 - Part A, p. 77 - 80 4 p.

Revisiting the arthritogenic peptide theory: quantitative not qualitative changes in the peptide repertoire of HLA-B27 allotypes
Schittenhelm, R. B., Lim Kam Sian, T. C. C., Wilmann, P. G., Dudek, N. L. & Purcell, A. W., 2015, In: Arthritis and Rheumatology. 67, 3, p. 702 - 713 12 p.

Simultaneous quantification of viral antigen expression kinetics using data-independent (DIA) mass spectrometry
Croft, N. P., de Verteuil, D. A., Smith, S. A., Wong, Y. C., Schittenhelm, R. B., Tscharke, D. C. & Purcell, A. W., 2015, In: Molecular and Cellular Proteomics. 14, 5, p. 1361 - 1372 12 p.

Specialized insulin is used for chemical warfare by fish-hunting cone snails
Safavi-Hemami, H., Gajewiak, J., Karanth, S., Robinson, S., Ueberheide, B., Douglass, A. D., Schlegel, A., Imperial, J. S., Watkins, M., Bandyopadhyay, P. K., Yandell, M., Li, Q., Purcell, A. W., Norton, R. S., Ellgaard, L. & Olivera, B. M., 2015, In: Proceedings of the National Academy of Sciences of the United States of America. 112, 6, p. 1743 - 1748 6 p.

T cell cross-reactivity between a highly immunogenic EBV epitope and a self-peptide naturally presented by HLA-B*18:01+ cells
Rist, M. J., Hibbert, K. M., Croft, N. P., Smith, C., Neller, M. A., Burrows, J. M., Miles, J. J., Purcell, A. W., Rossjohn, J., Gras, S. & Burrows, S. R., 2015, In: Journal of Immunology. 194, 10, p. 4668 - 4675 8 p.

T cell receptor reversed polarity recognition of a self-antigen major histocompatibility complex
Beringer, D. X., Kleijwegt, F. S., Wiede, F., Van Der Slik, A. R., Loh, K. K. L., Petersen, J., Dudek, N. L., Duinkerken, G., Laban, S., Joosten, A. M., Vivian, J. P., Chen, Z., Uldrich, A. P., Godfrey, D. I., McCluskey, J., Price, D. A., Radford, K. J., Purcell, A. W., Nikolic, T. & Reid, H. H. & 3 others, Tiganis, T., Roep, B. O. & Rossjohn, J., 2015, In: Nature Immunology. 16, 11, p. 1153 - 1161 9 p.

Serum phosphorylated neurofilament-heavy chain levels in multiple sclerosis patients
Gresle, M. M., Liu, Y., Dagley, L. F., Haartsen, J., Pearson, F., Purcell, A. W., Laverick, L., Petzold, A., Lucas, R. M., van der Walt, A., Prime, H., Lazarus, K.-J. L., Taylor, B. V., Morris, D. R., Shaw, G. P. J. & Butzkueven, H., 1 Nov 2014, In: Journal of Neurology, Neurosurgery and Psychiatry. 85, 11, p. 1209-1213 5 p.

A comprehensive analysis of constitutive naturally processed and presented HLA-C*04:01 (Cw4)-specific peptides
Schittenhelm, R. B., Dudek, N. L., Croft, N. P., Ramarathinam, S. & Purcell, A. W., Mar 2014, In: Tissue Antigens. 83, 3, p. 174-179 6 p.

A molecular basis for the interplay between T cells, viral mutants, and human leukocyte antigen micropolymorphism
Liu, Y. C., Chen, Z., Neller, M. A., Miles, J. J., Purcell, A. W., McCluskey, J., Burrows, S. R., Rossjohn, J. & Gras, S., 2014 , In: Journal of Biological Chemistry. 289, 24, p. 16688 - 16698 11 p.

A mortise-tenon joint in the transmembrane domain modulates autotransporter assembly into bacterial outer membranes
Leyton, D. L., Johnson, M. D., Thapa, R., Huysmans, G., Dunstan, R. A., Celik, N., Shen, H.-H., Loo, D., Belousoff, M. J., Purcell, A. W., Henderson, I. R., Beddoe, T. C., Rossjohn, J., Martin, L. L., Strugnell, R. A. & Lithgow, T. J., 2014, In: Nature Communications. 5, (Art. No.: 4239), p. 1 - 11 11 p.

An extensive antigenic footprint underpins immunodominant TCR adaptability against a hypervariable viral determinant
Nivarthi, U. K., Gras, S., Kjer-Nielsen, L., Berry, R., Lucet, I. S., Miles, J., Tracy, S. L., Purcell, A. W., Bowden, D. S., Hellard, M. E., Rossjohn, J., McCluskey, J. & Bharadwaj, M., 2014, In: Journal of Immunology. 193, 11, p. 5402 - 5413 12 p.

Combined proteomic and transcriptomic interrogation of the venom gland of Conus geographus uncovers novel components and functional compartmentalization
Safavi-Hemami, H., Hu, H., Gorasia, D. G., Bandyopadhyay, P. K., Veith, P. D., Young, N. D., Reynolds, E. C., Yandell, M., Olivera, B. M. & Purcell, A. W., 2014, In: Molecular and Cellular Proteomics. 13, 4, p. 938 - 953 16 p.

Discovery of novel disease-specific and membrane-associated candidate markers in a mouse model of multiple sclerosis
Dagley, L. F., Croft, N. P., Isserlin, R., Olsen, J. B., Fong, V., Emili, A. & Purcell, A. W., 2014, In: Molecular and Cellular Proteomics. 13, 1, p. 679 - 700 22 p.

Diversity of conotoxin gene superfamilies in the venomous snail, Conus victoriae
Robinson, S., Safavi-Hemami, H., McIntosh, L. D., Purcell, A. W., Norton, R. S. & Papenfuss, A. T., 2014, In: PLoS ONE. 9, e87648, p. 1 - 13 13 p.

Quantitative proteomic profiling reveals novel region-specific markers in the adult mouse brain
Dagley, L. F., White, C. A., Liao, Y., Shi, W., Smyth, G. K., Orian, J. M., Emili, A. & Purcell, A. W., 2014, In: Proteomics. 14 , 2-3, p. 241 - 261 21 p.

Structural and functional correlates of enhanced antiviral immunity generated by heteroclitic CD8 T cell epitopes
Trujillo, J. A., Gras, S., Twist, K.-A., Croft, N. P., Channappanavar, R., Rossjohn, J., Purcell, A. W. & Perlman, S., 2014, In: Journal of Immunology. 192, 11, p. 5245 - 5256 12 p.

The beta cell immunopeptidome
Dudek, N. L. & Purcell, A. W., 2014, In: Vitamins and Hormones-Advances in Research and Applications. 95, p. 115 - 144 30 p.

The cellular redox environment alters antigen presentation
Trujillo, J. A., Croft, N. P., Dudek, N. L., Channappanavar, R., Theodossis, A., Webb, A. I., Dunstone, M. A., Illing, P. T., Butler, N. S., Fett, C., Tscharke, D. C., Rossjohn, J., Perlman, S. & Purcell, A. W., 2014, In: Journal of Biological Chemistry. 289, 40, p. 27979 - 27991 13 p.

A molecular basis for the association of the HLA-DRB1 locus, citrullination, and rheumatoid arthritis
Scally, S., Petersen, J., Law, S. C. C., Dudek, N. L., Nel, H. J., Loh, K. L., Wijeyewickrema, L. C., Eckle, S. B. G., van Heemst, J., Pike, R. N., McCluskey, J., Toes, R. E., La Gruta, N. L., Purcell, A. W., Reid, H. H., Thomas, R. & Rossjohn, J. , 2013, In: Journal of Experimental Medicine. 210, 12, p. 2569 - 2582 14 p.

Application of quantitative proteomics technologies to the biomarker discovery pipeline for multiple sclerosis
Dagley, L. F., Emili, A. & Purcell, A. W., 2013, In: Proteomics - Clinical Applications. 7, 1-2, p. 91 - 108 18 p.

Assembly of the type II secretion system such as found in Vibrio cholerae depends on the novel Pilotin AspS
Dunstan, R. A., Heinz, E., Wijeyewickrema, L. C., Pike, R. N., Purcell, A. W., Evans, T. J., Praszkier, J., Robins-Browne, R. M., Strugnell, R. A., Korotkov, K. V. & Lithgow, T. J., 2013, In: PLoS Pathogens. 9, 1, 14 p., e1003117.

Highly divergent T-cell receptor binding modes underlie specific recognition of a bulged viral peptide bound to a human leukocyte antigen class I molecule
Liu, Y. C., Miles, J. J., Neller, M. A., Gostick, E., Price, D. A., Purcell, A. W., McCluskey, J., Burrows, S. R., Rossjohn, J. & Gras, S., 2013, In: Journal of Biological Chemistry. 288, 22, p. 15442 - 15454 13 p.

High molecular weight components of the injected venom of fish-hunting cone snails target the vascular system
Safavi-Hemami, H., Moller, C., Mari, F. M. & Purcell, A. W., 2013, In: Journal of Proteomics. 91, p. 97 - 105 9 p.

HLA peptide length preferences control $CD8^+$ T cell responses
Rist, M. J., Theodossis, A., Croft, N. P., Neller, M. A., Welland, A. D., Chen, Z., Sullivan, L. C., Burrows, J. M., Miles, J. J., Brennan, R. M., Gras, S., Khanna, R., Brooks, A., McCluskey, J., Purcell, A. W., Rossjohn, J. & Burrows, S. R., 2013, In: Journal of Immunology. 191, 2, p. 561-571 11 p.

Human leukocyte antigen-associated drug hypersensitivity
Illing, P. T., Vivian, J. P., Purcell, A. W., Rossjohn, J. & McCluskey, J., 2013, In: Current Opinion in Immunology. 25, 1, p. 81 - 89 9 p.

Kinetics of antigen expression and epitope presentation during virus infection
Croft, N. P., Smith, S. A., Wong, Y. C., Tan, C. T., Dudek, N. L., Flesch, I. E. A., Lin, L. C. W., Tscharke, D. C. & Purcell, A. W., 2013, In: PLoS Pathogens. 9, 1, 13 p., e1003129.

Membrane proteomics by high performance liquid chromatography-tandem mass spectrometry: Analytical approaches and challenges
Vuckovic, D., Dagley, L. F., Purcell, A. W. & Emili, A., 2013, In: Proteomics. 13, 3-4, p. 404 - 423 20 p.

Novel tumor derived peptides in vaccines
Purcell, A. W., Croft, N. P. & Dudek, N. L., 2013, *Handbook of Biologically Active Peptides.* Kastin, A. J. (ed.). 2nd ed. USA: Elsevier, p. 580 - 589 10 p.

Preemptive priming readily overcomes structure-based mechanisms of virus escape
Valkenburg, S. A., Gras, S., Guillonneau, C., Hatten, L. A., Bird, N. L., Twist, K.-A., Abd Halim, N. H., Jackson, D. C., Purcell, A. W., Turner, S. J., Doherty, P. C., Rossjohn, J. & Kedzierska, K., 2013, In: Proceedings of the National Academy of Sciences of the United States of America. 110, 14, p. 5570 - 5575 6 p.

Posttranslational modifications of proteins in type 1, diabetes: The next step in finding the cure?
Dunne, J. L., Overbergh, L., Purcell, A. W. & Mathieu, C., Aug 2012, In: Diabetes. 61, 8, p. 1907-1914 8 p.

Secreted HLA recapitulates the immunopeptidome and allows in-depth coverage of HLA A*02: 01 ligands
Scull, K. E., Dudek, N. L., Corbett, A. J., Ramarathinam, S. H., Gorasia, D. G., Williamson, N. A. & Purcell, A. W., Jun 2012, In: Molecular Immunology. 51, 2, p. 136-142 7 p.

T-cell autoreactivity to citrullinated autoantigenic peptides in rheumatoid arthritis patients carrying HLA-DRB1 shared epitope alleles
Law, S. C. C., Street, S., Yu, C. H. A., Capini, C., Ramnoruth, S., Nel, H. J., van Gorp, E., Hyde, C., Lau, K., Pahau, H., Purcell, A. W. & Thomas, R., 17 May 2012, In: Arthritis Research & Therapy. 14, 3, R118.

A structural basis for varied αβ TCR usage against an immunodominant EBV antigen restricted to a HLA-B8 molecule
Gras, S., Wilmann, P., Chen, Z., Abd Halim, N. H., Liu, Y. C., Kjer-Nielsen, L., Purcell, A. W., Burrows, S. R., McCluskey, J. & Rossjohn, J., 2012, In: Journal of Immunology. 188, 1, p. 311-321 11 p.

Biased T cell receptor usage directed against human leukocyte antigen DQ8-restricted gliadin peptides is associated with celiac disease
Broughton, S. E., Petersen, J., Theodossis, A., Scally, S. W., Loh, K. L., Thompson, A., van Bergen, J., Kooy-Winkelaar, Y., Henderson, K. N., Beddoe, T. C., Tye-Din, J. A., Mannering, S. I., Purcell, A. W., McCluskey, J., Anderson, R. P., Koning, F., Reid, H. H. & Rossjohn, J., 2012, In: Immunity. 37, 4, p. 611 - 621 11 p.

Constitutive and inflammatory immunopeptidome of pancreatic beta-cells
Dudek, N. L., Tan, C. T., Gorasia, D. G., Croft, N. P., Illing, P. T. & Purcell, A. W., 2012, In: Diabetes. 61, 11, p. 3018 - 3025 8 p.

Discovery of an archetypal protein transport system in bacterial outer membranes
Selkrig, J., Mosbahi, K., Webb, C. T., Belousoff, M. J., Perry, A. J., Wells, T. J., Morris, F. C., Leyton, D. L., Totsika, M., Phan, M.-D., Celik, N., Kelly, M., Oates, C., Hartland, E. L., Robins-Browne, R. M., Ramarathinam, S. H., Purcell, A. W., Schembri, M. A., Strugnell, R. A. & Henderson, I. R. & 2 others, Walker, D. & Lithgow, T. J., 2012, In: Nature Structural and Molecular Biology. 19, 5, p. 506 - 510 5 p.

Drug hypersensitivity and human leukocyte antigens of the major histocompatibility complex
Bharadwaj, M., Illing, P., Theodossis, A., Purcell, A. W., Rossjohn, J. & McCluskey, J., 2012, In: Annual Review of Pharmacology and Toxicology. 52, p. 401 - 431 31 p.

Immune self-reactivity triggered by drug-modified HLA-peptide repertoire
Illing, P. T., Vivian, J. P., Dudek, N. L., Kostenko, L., Chen, Z., Bharadwaj, M., Miles, J. J., Kjer-Nielsen, L., Gras, S., Williamson, N. A., Burrows, S. R., Purcell, A. W., Rossjohn, J. & McCluskey, J., 2012, In: Nature. 486, 7404, p. 554 - 558 5 p.

Modulation of conotoxin structure and function is achieved through a multienzyme complex in the venom glands of cone snails
Safavi-Hemami, H., Gorasia, D. G., Steiner, A. M., Williamson, N. A., Karas, J., Gajewiak, J., Olivera, B. M., Bulaj, G. & Purcell, A. W., 2012, In: Journal of Biological Chemistry. 287, 41, p. 34288 - 34303 16 p.

MR1 presents microbial vitamin B metabolites to MAIT cells
Kjer-Nielsen, L., Patel, O. G., Corbett, A. J., Le Nours, J., Meehan, B., Liu, L., Bhati, M., Chen, Z., Kostenko, L., Reantragoon, R., Williamson, N. A., Purcell, A. W., Dudek, N. L., McConville, M. J., O'Hair, R. A., Khairallah, G. N., Godfrey, D. I., Fairlie, D. P., Rossjohn, J. & McCluskey, J., 2012, In: Nature. 491, 7426, p. 717 - 723 7 p.

The energetic basis underpinning T-cell receptor recognition of a super-bulged peptide bound to a major histocompatibility complex class I molecule
Liu, Y. C., Chen, Z., Burrows, S. R., Purcell, A. W., McCluskey, J., Rossjohn, J. & Gras, S., 2012, In: Journal of Biological Chemistry. 287, 15, p. 12267 - 12276 10 p.

Tracking protein aggregation and mislocalization in cells with flow cytometry
Ramdzan, Y. M., Polling, S., Chia, C. P. Z., Ng, I. H. W., Ormsby, A. R., Croft, N. P., Purcell, A. W., Bogoyevitch, M. A., Ng, D. C., Gleeson, P. A. & Hatters, D. M., 2012, In: Nature Methods. 9, 5, p. 467 - 470 4 p.

Unravelling conotoxin folding and molecular diversity
Purcell, A. W. & Safavi-Hemami, H., 2012, In: Australian Biochemist. 43, 2, p. 4 - 6 3 p.

Specialisation of the venom gland proteome in predatory cone snails reveals functional diversification of the conotoxin biosynthetic pathway
Safavi-Hemami, H., Siero, W. A., Gorasia, D. G., Young, N. D., MacMillan, D., Williamson, N. A. & Purcell, A. W., 2 Sept 2011, In: Journal of Proteome Research. 10, 9, p. 3904-3919 16 p.

Defining the substrate specificity determinants recognized by the active site of C-terminal Src kinase-homologous kinase (CHK) and identification of β-synuclein as a potential CHK physiological substrate
Ia, K. K., Jeschke, G. R., Deng, Y., Kamaruddin, M. A., Williamson, N. A., Scanlon, D. B., Culvenor, J. G., Hossain, M. I., Purcell, A. W., Liu, S., Zhu, H.-J., Catimel, B., Turk, B. E. & Cheng, H.-C., 9 Aug 2011, In: Biochemistry. 50, 31, p. 6667-6677 11 p.

β_2-glycoprotein I and protection from anti-SSA/Ro60- associated cardiac manifestations of neonatal lupus
Reed, J. H., Clancy, R. M., Purcell, A. W., Kim, M. Y., Gordon, T. P. & Buyon, J. P., 1 Jul 2011, In: Journal of Immunology. 187, 1, p. 520-526 7 p.

Linear ubiquitination prevents inflammation and regulates immune signalling
Gerlach, B., Cordier, S. M., Schmukle, A. C., Emmerich, C. H., Rieser, E., Haas, T. L., Webb, A. I., Rickard, J. A., Anderton, H., Wong, W. W. L., Nachbur, U., Gangoda, L., Warnken, U., Purcell, A. W., Silke, J. & Walczak, H., 31 Mar 2011, In: Nature. 471, 7340, p. 591-596 6 p.

Experimental autoimmune encephalomyelitis (EAE) IN C57Bl/6 mice is not associated with astrogliosis
Pham, H., Doerrbecker, J., Ramp, A. A., D'Souza, C. S., Gorasia, D. G., Purcell, A. W., Ayers, M. & Orian, J. M., Mar 2011, In: Journal of Neuroimmunology. 232, 1-2, p. 51-62 12 p.

Stable isotope shifted matrices enable the use of low mass ion precursor scanning for targeted metabolite identification
Reilly, C. B., Ramarathinam, S. H., Williamson, N. A. & Purcell, A. W., 17 Jan 2011, In: Proteome Science. 9, 7 p., 2.

A novel strategy for the targeted analysis of protein and peptide metabolites
Williamson, N. A., Reilly, C., Tan, C. T., Ramarathinam, S. H., Jones, A., Hunter, C. L., Rooney, F. R. & Purcell, A. W., 2 Jan 2011, In: Proteomics. 11, 2, p. 183-192 10 p.

CD4+ T-cell deficiency in HIV patients responding to antiretroviral therapy is associated with increased expression of interferon-stimulated genes in CD4+ T cells
Fernandez, S., Tanaskovic, S., Helbig, K., Rajasuriar, R., Kramski, M., Murray, J. M., Beard, M. R., Purcell, A. W., Lewin, S. R., Price, P. & French, M., 2011, In: The Journal of Infectious Diseases. 204, 12, p. 1 - 9 9 p.

Direct quantitation of MHC-bound peptide epitopes by selected reaction monitoring
Tan, C. T., Croft, N. P., Dudek, N. L., Williamson, N. A. & Purcell, A. W., 2011, In: Proteomics. 11, 11, p. 2336 - 2340 5 p.

Embryonic toxin expression in the cone snail conus victoriae - primed to kill or divergent function?
Safavi-Hemami, H., Siero, W. A., Kuang, Z., Williamson, N. A., Karas, J. A., Page, L. R., MacMillan, D., Kompella, S. N., Adams, D. J., Norton, R. S. & Purcell, A. W., 2011, In: Journal of Biological Chemistry. 286, 25, p. 22546 - 22557 12 p.

Peptidomimetics: modifying peptides in the pursuit of better vaccines
Croft, N. P. & Purcell, A. W., 2011, In: Expert Review of Vaccines. 10, 2, p. 211 - 226 16 p.

Structural basis for enabling T-cell receptor diversity within biased virus-specific $CD8^+$ T-cell responses
Day, E. B., Guillonneau, C., Gras, S., La Gruta, N. L., Vignali, D., Doherty, P., Purcell, A., Rossjohn, J. & Turner, S., 2011, In: Proceedings of the National Academy of Sciences of the United States of America. 108, 23, p. 9536 - 9541 6 p.

Proteomic interrogation of venom delivery in marine cone snails: Novel insights into the role of the venom bulb
Safavi-Hemami, H., Young, N. D., Williamson, N. A. & Purcell, A. W., 5 Nov 2010, In: Journal of Proteome Research. 9, 11 , p. 5610-5619 10 p.

Identification of Conus peptidylprolyl cis-trans isomerases (PPIases) and assessment of their role in the oxidative folding of conotoxins
Safavi-Hemami, H., Bulaj, G., Olivera, B. M., Williamson, N. A. & Purcell, A. W., 23 Apr 2010, In: Journal of Biological Chemistry. 285, 17, p. 12735-12746 12 p.

Molecular markers of preterm labor in the choriodecidua
Shankar, R., Johnson, M. P., Williamson, N. A., Cullinane, F., Purcell, A. W., Moses, E. K. & Brennecke, S. P., Mar 2010, In: Reproductive Sciences. 17, 3, p. 297-310 14 p.

Enhancing tumor vaccines: Catalyzing MHC class II peptide exchange
Croft, N. P. & Purcell, A. W., Feb 2010, In: Expert Review of Vaccines. 9, 2, p. 129-132 4 p.

Allelic polymorphism in the T cell receptor and its impact on immune responses
Gras, S., Chen, Z., Miles, J. J., Liu, Y. C., Bell, M. J., Sullivan, L. C., Kjer-Nielsen, L., Brennan, R. M., Burrows, J. M., Neller, M. A., Khanna, R., Purcell, A. W., Brooks, A. G., McCluskey, J., Rossjohn, J. & Burrows, S. R., 2010, In: Journal of Experimental Medicine. 207, 7, p. 1555 - 1567 13 p.

A modular BAM complex in the outer membrane of the alpha-proteobacterium caulobacter crescentus
Anwari, K., Poggio, S., Perry, A., Gatsos, X., Ramarathinam, S. H., Williamson, N. A., Noinaj, N., Buchanan, S., Gabriel, K., Purcell, A. W., Jacobs-Wagner, C. & Lithgow, T., 2010, In: PLoS ONE. 5, 1, 8 p., e8619.

Constraints within major histocompatibility complex class I restricted peptides: presentation and consequences for T-cell recognition
Theodossis, A., Guillonneau, C., Welland, A. D., Ely, L. K., Clements, C. S., Williamson, N. A., Webb, A. I., Wilce, J. A., Mulder, R. J., Dunstone, M. A., Doherty, P. C., McCluskey, J., Purcell, A. W., Turner, S. J. & Rossjohn, J., 2010, In: Proceedings of the National Academy of Sciences of the United States of America. 107, 12, p. 5534 - 5539 6 p.

Epitope discovery and their use in peptide based vaccines
Dudek, N. L., Perlmutter, P., Aguilar, M. I., Croft, N. & Purcell, A. W., 2010, In: Current Pharmaceutical Design. 16, 28, p. 3149 - 3157 9 p.

Hard wiring of T cell receptor specificity for the major histocompatibility complex is underpinned by TCR adaptability
Burrows, S. R., Chen, Z., Archbold, J. K., Tynan, F. E., Beddoe, T. C., Kjer-Nielsen, L., Miles, J. J., Khanna, R., Moss, D. J., Liu, Y. C., Gras, S., Kostenko, L., Brennan, R. M., Clements, C. S., Brooks, A. G., Purcell, A. W., McCluskey, J. & Rossjohn, J., 2010, In: Proceedings of the National Academy of Sciences of the United States of America. 107, 23, p. 10608 - 10613 6 p.

Protective efficacy of cross-reactive CD8$^+$ T cells recognising mutant viral epitopes depends on peptide-MHC-I structural interactions and T cell activation threshold
Valkenburg, S. A., Gras, S., Guillonneau, C., La Gruta, N. L., Thomas, P. G., Purcell, A. W., Rossjohn, J., Doherty, P. C., Turner, S. J. & Kedzierska, K., 2010, In: PLoS Pathogens. 6, 8, 15 p., e1001039.

Rapid microscale in-gel processing and digestion of proteins using surface acoustic waves
Kulkarni, K., Ramarathinam, S., Friend, J., Yeo, L., Purcell, A. & Perlmutter, P., 2010, In: Lab on a Chip. 10, 12, p. 1518 - 1520 3 p.

Reactivity with dichotomous determinants of Ro 60 stratifies autoantibody responses in lupus and primary Sjogren's syndrome
Reed, J. H., Dudek, N. L., Osborne, S. E., Kaufmann, K. M., Jackson, M. W., Purcell, A. W. & Gordon, T. P., 2010, In: Arthritis and Rheumatism. 62, 5, p. 1448 - 1456 9 p.

The structural basis for autonomous dimerization of the pre-T-cell antigen receptor
Pang, S. S., Berry, R., Chen, Z., Kjer-Nielsen, L., Perugini, M. A., King, G. F., Wang, C., Chew, S. H., La Gruta, N. L., Williams, N. K., Beddoe, T. C., Tiganis, T., Cowieson, N. P., Godfrey, D. I., Purcell, A. W., Wilce, M. C., McCluskey, J. & Rossjohn, J., 2010, In: Nature. 467, 7317, p. 844 - 848 7 p.

Mass spectral identification of Vc1.1 and differential distribution of conopeptides in the venom duct of conus victoriae. effect of post-translational modifications and disulfide isomerisation on bioactivity
Townsend, A., Livett, B. G., Bingham, J. P., Truong, H. T., Karas, J. A., O'Donnell, P., Williamson, N. A., Purcell, A. W. & Scanlon, D., Sept 2009, In: International Journal of Peptide Research and Therapeutics. 15, 3, p. 195-203 9 p.

A long, naturally presented immunodominant epitope from NY-ESO-1 tumor antigen: Implications for cancer vaccine design (Cancer Research (2009) 69, (1046-54))
Ebert, L. M., Liu, Y. C., Clements, C. S., Robson, N. C., Jackson, H. M., Markby, J. L., Dimopoulos, N., Tan, B. S., Luescher, I. F., Davis, I. D., Rossjohn, J., Cebon, J., Purcell, A. W. & Chen, W., 15 May 2009, In: Cancer Research. 69, 10 , p. 4553 1 p.

The A-chain of insulin is a hot-spot for CD4 $^+$ T cell epitopes in human type 1 diabetes
Mannering, S. I., Pang, S. H., Williamson, N. A., Naselli, G., Reynolds, E. C., O'Brien-Simpson, N. M., Purcell, A. W. & Harrison, L. C., May 2009, In: Clinical & Experimental Immunology. 156, 2, p. 226-231 6 p.

A long, naturally presented immunodominant epitope from NY-ESO-1 tumor antigen: implications for cancer vaccine design
Ebert, L. M., Liu, Y. C., Clements, C. S., Robson, N. C., Jackson, H. M., Markby, J. L., Dimopoulos, N., Tan, B. S., Luescher, I. F., Davis, I. D., Rossjohn, J., Cebon, J., Purcell, A. W. & Chen, W., 2009, In: Cancer Research. 69, 3, p. 1046 - 1054 9 p.

Antigen ligation triggers a conformational change within the constant domain of the alphabeta T cell receptor
Beddoe, T. C., Chen, Z., Clements, C. S., Ely, L. K., Bushell, S. R., Vivian, J. P., Kjer-Nielsen, L., Pang, S. S., Dunstone, M. A., Liu, Y. C., Macdonald, W. A., Perugini, M. A., Wilce, M. C. J., Burrows, S. R., Purcell, A. W., Tiganis, T., Bottomley, S. P., McCluskey, J. & Rossjohn, J., 2009, In: Immunity. 30, 6, p. 777 - 788 12 p.

Natural micropolymorphism in human leukocyte antigens provides a basis for genetic control of antigen recognition
Archbold, J. K., Macdonald, W. A., Gras, S., Ely, L. K., Miles, J. J., Bell, M. J., Brennan, R. M., Beddoe, T. C., Wilce, M. C. J., Clements, C. S., Purcell, A. W., McCluskey, J., Burrows, S. R. & Rossjohn, J., 2009, In: Journal of Experimental Medicine. 206, 1, p. 209 - 219 11 p.

Phosphorylated self-peptides alter human leukocyte antigen class I-restricted antigen presentation and generate tumor-specific epitopes
Petersen, J., Wurzbacher, S. J., Williamson, N. A., Ramarathinam, S. H., Reid, H. H., Nair, A. K. N., Zhao, A. Y., Nastovska, R., Rudge, G., Rossjohn, J. & Purcell, A. W., 2009, In: Proceedings of the National Academy of Sciences of the United States of America. 106, 8, p. 2776 - 2781 6 p.

Post-translationally modified T cell epitopes: Immune recognition and immunotherapy
Petersen, J., Purcell, A. W. & Rossjohn, J., 2009, In: Journal of Molecular Medicine. 87, 11, p. 1045 - 1051 7 p.

T cell allorecognition via molecular mimicry
Macdonald, W. A., Chen, Z., Gras, S., Archbold, J. K., Tynan, F. E., Clements, C. S., Bharadwaj, M., Kjer-Nielsen, L., Saunders, P. M., Wilce, M. C. J., Crawford, F., Stadinsky, B., Jackson, D., Brooks, A., Purcell, A. W., Kappler, J., Burrows, S. R., Rossjohn, J. & McCluskey, J., 2009, In: Immunity. 31, 6, p. 897 - 908 12 p.

The protein import channel in the outer mitosomal membrane of Giardia intestinalis
Dagley, M. J., Dolezal, P., Likic, V. A., Smid, O., Purcell, A. W., Buchanan, S. K., Tachezy, J. & Lithgow, T. J., 2009, In: Molecular Biology and Evolution. 26, 9, p. 1941 - 1947 7 p.

The shaping of T cell receptor recognition by self-tolerance
Gras, S., Burrows, S. R., Kjer-Nielsen, L., Clements, C. S., Liu, Y. C., Sullivan, L. C., Bell, M. J., Brooks, A. G., Purcell, A. W., McCluskey, J. & Rossjohn, J., 2009, In: Immunity. 30, 2, p. 193 - 203 11 p.

Can α- and β-Alanine Containing Peptides Be Distinguished Based on the CID Spectra of Their Protonated Ions?
Lam, A. K. Y., Ramarathinam, S. H., Purcell, A. W. & O'Hair, R. A. J., Dec 2008, In: Journal of the American Society for Mass Spectrometry. 19, 12, p. 1743-1754 12 p.

Impact of glycans on T-cell tolerance to glycosylated self-antigens
Purcell, A. W., Van Driel, I. R. & Gleeson, P. A., 1 Oct 2008, In: Immunology and Cell Biology. 86, 7, p. 574-579 6 p.

Human Leukocyte Antigen Class I-Restricted Activation of $CD8^+$ T Cells Provides the Immunogenetic Basis of a Systemic Drug Hypersensitivity (DOI: 10.1016/j.immuni.2008.04.020)
Chessman, D., Kostenko, L., Lethborg, T., Purcell, A. W., Williamson, N. A., Chen, Z., Kjer-Nielsen, L., Mifsud, N. A., Tait, B. D., Holdsworth, R., Almeida, C. A., Nolan, D., Macdonald, W. A., Archbold, J. K., Kellerher, A. D., Marriott, D., Mallal, S., Bharadwaj, M., Rossjohn, J. & McCluskey, J., 18 Jul 2008, In: Immunity. 29, 1, 1 p.

Molecular machinations of the MHC-I peptide loading complex
Purcell, A. W. & Elliott, T., 1 Feb 2008, In: Current Opinion in Immunology. 20, 1, p. 75-81 7 p.

Complete modification of TCR specificity and repertoire selection does not perturb a $CD8^+$ T cell immunodominance hierarchy
Kedzierska, K., Guillonneau, C., Gras, S., Hatton, L. A., Webby, R., Purcell, A. W., Rossjohn, J., Doherty, P. C. & Turner, S. J., 2008, In: Proceedings of the National Academy of Sciences of the United States of America. 105, 49, p. 19408 - 19413 5 p.

Epitope-specific TCRbeta repertoire diversity imparts no functional advantage on the CD8+ T cell response to cognate viral peptides
La Gruta, N. L., Thomas, P. G., Webb, A. I., Dunstone, M. A., Cukalac, T., Doherty, P. C., Purcell, A. W., Rossjohn, J. & Turner, S. J., 2008, In: Proceedings of the National Academy of Sciences of the United States of America. 105, 6, p. 2034 - 2039 6 p.

Human leukocyte antigen class I-restricted activation of CD8+ T cells provides the immunogenetic basis of a systemic drug hypersensitivity
Chessman, D., Kostenko, L., Lethborg, T., Purcell, A. W., Williamson, N. A., Chen, Z., Kjer-Nielsen, L., Mifsud, N. A., Tait, B. D., Holdsworth, R., Almeida, C. A., Nolan, D., Macdonald, W. A., Archbold, J. K., Kellerher, A. D., Marriott, D., Mallal, S., Bharadwaj, M., Rossjohn, J. & McCluskey, J., 2008, In: Immunity. 28, 6, p. 822 - 832 11 p.

Immunodominance hierarchies and gender bias in direct Tcd8-cell alloreactivity
Mifsud, N. A., Purcell, A. W., Chen, W. W., Holdsworth, R., Tait, B. D. & McCluskey, J., 2008, In: American Journal of Transplantation. 8, 1, p. 121 - 132 12 p.

Prevention of cytotoxic T cell escape using a heteroclitic subdominant viral T cell determinant
Butler, N. S., Theodossis, A., Webb, A. I., Nastovska, R., Ramarathinam, S. H., Dunstone, M. A., Rossjohn, J., Purcell, A. W. & Perlman, S., 2008, In: PLoS Pathogens. 4, 10, p. 1 - 13 13 p.

Protein secretion and outer membrane assembly in Alphaproteobacteria
Gatsos, X., Perry, A. J., Anwari, K., Dolezal, P., Wolynec, P. P., Likic, V. A., Purcell, A. W., Buchanan, S. K. & Lithgow, T. J., 2008, In: FEMS Microbiology Reviews. 32, 6, p. 995 - 1009 15 p.

Refinement in the production and purification of recombinant HCMV IE1-pp65 protein for the generation of epitope-specific T cell immunity
Nguyen, T. H. O., Mifsud, N. A., Stewart, L. A., Rose, M. J., Etto, T. L., Williamson, N. A., Purcell, A. W., Kotsimbos, T. C. & Schwarer, A., 2008, In: Protein Expression and Purification. 61, 1, p. 22 - 30 9 p.

Structural and biological basis of CTL escape in coronavirus-infected mice
Butler, N. S., Theodossis, A., Webb, A. I., Dunstone, M. A., Nastovska, R., Ramarathinam, S. H., Rossjohn, J., Purcell, A. W. & Perlman, S., 2008, In: Journal of Immunology. 180, 6, p. 3926 - 3937 12 p.

T-cells behaving badly: Structural insights into alloreactivity and autoimmunity
Ely, L. K., Burrows, S. R., Purcell, A. W., Rossjohn, J. & McCluskey, J., 2008, In: Current Opinion in Immunology. 20, 5, p. 575 - 580 6 p.

The enantioselective total synthesis and unambiguous proof of the absolute stereochemistry of pervilleine C
Kulkarni, K. P., Zhao, A. Y., Purcell, A. W. & Perlmutter, P., 2008, In: Synlett. 2008, 14, p. 2209 - 2212 4 p.

The molecular basis of cross-reactivity in the Australian Snake Venom Detection Kit (SVDK)
Winkel, K., Carroll, T., Williamson, N. A., Ignjatovic, V., Fung, K., Purcell, A. W. & Fry, B. G., 15 Dec 2007, In: Toxicon. 50 , 8, p. 1041-1052 12 p.

Post translationally modified peptides: New targets in autoimmune disease
Lau, K. & Purcell, A. W., 2 Aug 2007, In: Chimica Oggi. 25, p. 6-9 4 p.

Immune responses to abacavir in antigen-presenting cells from hypersensitive patients
Martin, A. M., Almeida, C. A., Cameron, P., Purcell, A. W., Nolan, D., James, I., McCluskey, J., Phillips, E., Landay, A. & Mallal, S., 1 Jun 2007, In: AIDS. 21, 10, p. 1233-1244 12 p.

Mass spectrometric applications in immunoproteomics
Purcell, A. W., Williamson, N. A., Webb, A. I. & Lau, K., 1 Jan 2007, *Spectral Techniques In Proteomics.* CRC Press, p. 157-183 27 p.

A structural and immunological basis for the role of human leukocyte antigen DQ8 in celiac disease
Henderson, K., Tye-Din, J. A., Reid, H. H., Chen, Z., Borg, N., Beissbarth, T., Tatham, A., Mannering, S. I., Purcell, A. W., Dudek, N. L., van Heel, D. A., McCluskey, J., Rossjohn, J. & Anderson, R. P., 2007, In: Immunity. 27, 1, p. 23 - 34 12 p.

A T cell receptor flattens a bulged antigenic peptide presented by a major histocompatibility complex class I molecule
Tynan, F. E., Reid, H. H., Kjer-Nielsen, L., Miles, J. J., Wilce, M. C. J., Kostenko, L., Borg, N., Williamson, N. A., Beddoe, T. C., Purcell, A. W., Burrows, S. R., McCluskey, J. & Rossjohn, J., 2007, In: Nature Immunology. 8, 3, p. 268 - 276 9 p.

Beta-Amino acid-containing hybrid peptides - New opportunities in peptidomimetics
Aguilar, M. I., Purcell, A. W., Devi, R., Lew, R. A., Rossjohn, J., Smith, A. I. & Perlmutter, P., 2007, In: Organic & Biomolecular Chemistry. 5, 18, p. 2884 - 2890 7 p.

Conserved motifs reveal details of ancestry and structure in the small TIM chaperones of the mitochondrial intermembrane space

Gentle, I. E., Perry, A. J., Alcock, F. H., Likic, V. A., Dolezal, P., Ng, E. T., Purcell, A. W., McConnville, M., Naderer, T., Chanez, A.-L., Charriere, F., Aschinger, C., Schneider, A., Tokatlidis, K. & Lithgow, T. J., 2007, In: Molecular Biology and Evolution. 24, 5, p. 1149 - 1160 12 p.

Expression and purification of the minor histocompatibility antigen, HA-1H generated in Escherichia coli
Etto, T., Stewart, L., Nguyen, T. H. O., Williamson, N., Purcell, A. & Schwarer, A., 2007, In: Protein Expression and Purification. 54, 1, p. 176 - 182 7 p.

More than one reason to rethink the use of peptides in vaccine design
Purcell, A. W., McCluskey, J. & Rossjohn, J., 2007, In: Nature Reviews Drug Discovery. 6, 5, p. 404 - 414 11 p.

Responses against islet antigens in NOD mice are prevented by tolerance to proinsulin but not IGRP
Krishnamurthy, B., Dudek, N. L., McKenzie, M. D., Purcell, A. W., Brooks, A. G., Gellert, S., Colman, P. G., Harrison, L. C., Lew, A. M., Thomas, H. E. & Kay, T. W. H., 1 Dec 2006, In: The Journal of Clinical Investigation. 116, 12, p. 3258-3265 8 p.

C-terminal Src kinase-homologous kinase (CHK), a unique inhibitor inactivating multiple active conformations of Src family tyrosine kinases
Chong, Y. P., Chan, A. S., Chan, K. C., Williamson, N. A., Lerner, E. C., Smithgall, T. E., Bjorge, J. D., Fujita, D. J., Purcell, A. W., Scholz, G., Mulhern, T. D. & Cheng, H. C., 3 Nov 2006, In: Journal of Biological Chemistry. 281, 44, p. 32988-32999 12 p.

Disparate thermodynamics governing T cell receptor-MHC-1 interactions implicate extrinsic factors in guiding MHC restriction
Ely, L. K., Beddoe, T. C., Clements, C. S., Matthews, J. M., Purcell, A. W., Kjer-Nielsen, L., McCluskey, J. & Rossjohn, J., 2006, In: Proceedings of the National Academy of Sciences of the United States of America. 103, 17, p. 6641 - 6646 6 p.

Tumors reveal their secrets to cytotoxic T cells
Williamson, N. A., Rossjohn, J. & Purcell, A. W., 2006, In: Proceedings of the National Academy of Sciences of the United States of America. 103, 40, p. 14649 - 14650 2 p.

Qualitative and quantitative differences in peptides bound to HLA-B27 in the presence of mouse versus human tapasin define a role for tapasin as a size-dependent peptide editor
Sesma, L., Galocha, B., Vázquez, M., Purcell, A. W., Marcilla, M., McCluskey, J. & López De Castro, J. A., 15 Jun 2005, In: Journal of Immunology. 174, 12, p. 7833-7844 12 p.

An emerging role for comprehensive proteome analysis in human pregnancy research
Shankar, R., Gude, N., Cullinane, F., Brennecke, S., Purcell, A. W. & Moses, E. K., 1 Jun 2005, In: Reproduction. 129, 6, p. 685-696 12 p.

Use of proteomics to define targets of T-cell immunity
Williamson, N. A. & Purcell, A. W., 1 Jun 2005, In: Expert Review of Proteomics. 2, 3, p. 367-380 14 p.

A charged amino acid residue in the transmembrane/cytoplasmic region of tapasin influences MHC class I assembly and maturation
Petersen, J. L., Hickman-Miller, H. D., McIlhaney, M. M., Vargas, S. E., Purcell, A. W., Hildebrand, W. H. & Solheim, J. C., 15 Jan 2005, In: Journal of Immunology. 174, 2, p. 962-969 8 p.

Antagonism of antiviral and allogeneic activity of a human public ctl clonotype by a single altered peptide ligand: Implications for allograft rejection
Ely, L. K., Green, K. J., Beddoe, T. C., Clements, C. S., Miles, J. J., Bottomley, S. P., Zernich, D., Kjer-Nielsen, L., Purcell, A. W., McCluskey, J., Rossjohn, J. & Burrows, S. R., 2005, In: Journal of Immunology. 174, 9, p. 5593 - 5601 9 p.

A super-bulged epitope and single amino acid polymorphism identify critical features for T cell recognition
Tynan, F. E., Burrows, S. R., Buckle, A. M., Clements, C. S., Borg, N., Beddoe, T. C., Whisstock, J. C., Wilce, M. C. J., Silins, S. L., Burrows, J. M., Kjer-Nielsen, L., Kostenko, L., Purcell, A. W. & Rossjohn, J., 2005, p. 571. 1 p.

CTL recognition of a bulged viral peptide involves biased TCR selection
Miles, J. J., Elhassen, D., Borg, N. A., Silins, S. L., Tynan, F. E., Burrows, J. M., Purcell, A. W., Kjer-Nielsen, L., Rossjohn, J., Burrows, S. R. & McCluskey, J., 2005, In: Journal of Immunology. 175, 6, p. 3826 - 3834 9 p.

Engineering protease resistance into T cell epitopes improves bioavailability of vaccine components
Webb, A. I., Tait, B. (Editor), Dunstone, M. A., Aguilar, M. I., Rossjohn, J. & Purcell, A. W., 2005, p. 586. 1 p.

High resolution structures of highly bulged viral epitopes bound to major histocompatibility complex class I: implications for T-Cell receptor engagement and T-cell immunodominance
Tynan, F. E., Borg, N., Miles, J. J., Beddoe, T. C., Elhassen, D., Silins, S. L., van Zuylen, W. J., Purcell, A. W., Kjer-Nielsen, L., McCluskey, J., Burrows, S. R. & Rossjohn, J., 2005, In: Journal of Biological Chemistry. 280, 25, p. 23900 - 23909 10 p.

Lack of prominent peptide-major histocompatibility complex features limits repertoire diversity in virus-specific CD8+ T cell populations
Turner, S. J., Kedzierska, K., Komodromou, H., La Gruta, N. L., Dunstone, M. A., Webb, A. I., Webby, R., Walden, H., Xie, W., McCluskey, J., Purcell, A. W., Rossjohn, J. & Doherty, P. C., 2005, In: Nature Immunology. 6, 4, p. 382 - 389 8 p.

Peptides
Aguilar, M. I. & Purcell, A. W., 2005, *Encyclopedia of Analytical Science.* 2nd ed. Elsevier, p. 29-36 8 p.

Predicting the human T cell receptor choice before viral infection; Facts learnt from primary infection
Miles, J. J., Borg, N., Tynan, F. E., Kjer-Nielsen, L., Elhassen, D., Silins, S. L., Burrows, J. M., Brennan, R. M., Purcell, A. W., McCluskey, J. & Rossjohn, J., 2005, p. 493. 1 p.

T cell determinants incorporating beta-amino acid residues are protease resistant and remain immunogenic in vivo
Webb, A. I., Dunstone, M. A., Williamson, N. A., Price, J. D., de Kauwe, A., Chen, W., Oakley, A. J., Perlmutter, P., McCluskey, J., Aguilar, M.-I., Rossjohn, J. & Purcell, A. W., 2005, In: Journal of Immunology. 175, 6, p. 3810 - 3818 9 p.

T cell receptor recognition of a 'super-bulged' major histocompatibility complex class I-bound peptide
Tynan, F. E., Burrows, S. R., Buckle, A. M., Clements, C. S., Borg, N. A., Miles, J. J., Beddoe, T. C., Whisstock, J. C., Wilce, M. C. J., Silins, S. L., Burrows, J. M., Kjer-Nielsen, L., Kostenko, L., Purcell, A. W., McCluskey, J. & Rossjohn, J., 2005, In: Nature Immunology. 6, 11, p. 1114 - 1122 9 p.

The CDR3 regions of an Immunodominant T cell receptor dictate the 'energetic landscape' of peptide-MHC recognition
Borg, N. A., Ely, L. K., Beddoe, T. C., Macdonald, W. A., Reid, H. H., Clements, C. S., Purcell, A. W., Kjer-Nielsen, L., Miles, J. J., Burrows, S. R., McCluskey, J. & Rossjohn, J., 2005, In: Nature Immunology. 6, 2, p. 171 - 180 10 p.

The crystal structure of HLA-B*5701: Implications for abacavir hypersensitivity
Archbold, J. K., Macdonald, W. A., Purcell, A. W. & Rossjohn, J., 2005, p. 351 - 352. 2 p.

The immunogenicity of a viral cytotoxic T cell epitope is controlled by its MHC-bound conformation
Tynan, F. E., Elhassen, D., Purcell, A. W., Burrows, J. M., Borg, N. A., Miles, J. J., Williamson, N. A., Green, K. J., Tellam, J., Kjer-Nielsen, L., McCluskey, J., Rossjohn, J. & Burrows, S. R., 2005, In: Journal of Experimental Medicine. 202, 9, p. 1249 - 1260 12 p.

The insulin A-chain epitope recognized by human T cells is posttranslationally modified
Mannering, S. I., Harrison, L. C., Williamson, N. A., Morris, J. S., Thearle, D. J., Jensen, K. P., Kay, T. W., Rossjohn, J., Falk, B. A., Nepom, G. T. & Purcell, A. W., 2005, In: Journal of Experimental Medicine. 202, 9, p. 1191 - 1197 7 p.

The relationship between peptide-MHC class I structures and the TCR repertoire diversity of influenza a virus specific CD8+T cells
La Gruta, N. L., Webb, A. I., Dunstone, M. A., Doherty, P. C., Purcell, A. W., Rossjohn, J. & Turner, S. J., 2005, p. 570 - 571. 2 p.

Erratum: The structure of H-2K^{b} and K^{bm8} complexed to a herpes simplex virus determinant: Evidence for a conformational switch that governs T cell repertoire selection and viral resistance (Journal of Immunology (2004) 173 (402-409))
Webb, A. I., Borg, N. A., Dunstone, M. A., Kjer-Nielsen, L., Beddoe, T., McCluskey, J., Carbone, F. R., Bottomley, S. P., Aguilar, M. I., Purcell, A. W. & Rossjohn, J., 1 Oct 2004, In: Journal of Immunology. 173, 7, 1 p.

The production and purification of the human T-cell receptors, the CD3εγ and CD3εδ heterodimers: Complex formation and crystallization with OKT3, a therapeutic monoclonal antibody
Dunstone, M. A., Kjer-Nielsen, L., Kostenko, L., Purcell, A. W., Brooks, A. G., Rossjohn, J. & McCluskey, J., 1 Aug 2004, In: Acta Crystallographica Section D: Biological Crystallography. 60, 8, p. 1425-1428 4 p.

Predisposition to abacavir hypersensitivity conferred by HLA-B*5701 and a haplotypic Hsp70-Hom variant
Martin, A. M., Nolan, D., Gaudieri, S., Almeida, C. A., Nolan, R., James, I., Carvalho, F., Phillips, E., Christiansen, F. T., Purcell, A. W., McCluskey, J. & Mallal, S., 23 Mar 2004, In: Proceedings of the National Academy of Sciences of the United States of America. 101, 12, p. 4180-4185 6 p.

Immunoproteomics: Mass spectrometry-based methods to study the targets of the immune response
Purcell, A. W. & Gorman, J. J., 1 Mar 2004, In: Molecular and Cellular Proteomics. 3, 3, p. 193-208 16 p.

Crystal structure of the human T cell receptor CD3 heterodimer complexed to the therapeutic mAb OKT3
Kjer-Nielsen, L., Dunstone, M. A., Kostenko, L., Ely, L. K., Beddoe, T. C., Mifsud, N. A., Purcell, A. W., Brooks, A. G., McCluskey, J. & Rossjohn, J., 2004, In: Proceedings of the National Academy of Sciences of the United States of America. 101, 20, p. 7675 - 7680 6 p.

Functional and structural characteristics of NY-ESO-1-related HLA A2-restricted epitopes and the design of a novel immunogenic analogue
Webb, A. I., Dunstone, M. A., Chen, W., Aguilar, M. I., Chen, Q., Jackson, H., Chang, L., Kjer-Nielsen, L., Beddoe, T. C., McCluskey, J., Rossjohn, J. & Purcell, A. W., 2004, In: Journal of Biological Chemistry. 279, 22, p. 23438 - 23446 9 p.

Isolation and characterization of naturally processed MHC-bound peptides from the surface of antigen-presenting cells
Purcell, A. W., 2004, *HPLC of Peptides and Proteins: Methods and Protocols.* Aguilar, M.-I. (ed.). 1st ed. Totowa, NJ USA: Humana Press, p. 291-306 16 p. (Methods in Molecular Biology; vol. 251).

Natural HLA class I polymorphism controls the pathway of antigen presentation and susceptibility to viral evasion
Zernich, D., Purcell, A. W., Macdonald, W. A., Kjer-Nielsen, L., Ely, L. K., Laham, N., Crockford, T., Mifsud, N. A., Bharadwaj, M., Chang, L., Tait, B. D., Holdsworth, R., Brooks, A. G., Bottomley, S. P., Beddoe, T. C., Peh, C. A., Rossjohn, J. & McCluskey, J., 2004, In: Journal of Experimental Medicine. 200, 1, p. 13 - 24 12 p.

TAP genes and immunity
McCluskey, J., Rossjohn, J. & Purcell, A. W., 2004, In: Current Opinion in Immunology. 16, 5, p. 651 - 659 9 p.

The production and purification of the human T-cell receptors, the CD3and CD3heterodimers: Complex formation and crystallization with OKT3, a therapeutic monoclonal antibody
Dunstone, M. A., Kjer-Nielsen, L., Kostenko, L., Purcell, A. W., Brooks, A. G., Rossjohn, J. & McCluskey, J., 2004, In: Acta Crystallographica Section D: Biological Crystallography. 60, 8, p. 1425 - 1428 4 p.

The structure of H-2Kb and Kbm8 complexed to a herpes simplex virus determinant: Evidence for a conformational switch that governs T cell repertoire selection and viral resistance
Webb, A. I., Borg, N. A., Dunstone, M. A., Kjer-Nielsen, L., Beddoe, T. C., McCluskey, J., Carbone, F. R., Bottomley, S. P., Aguilar, M. I., Purcell, A. W. & Rossjohn, J., 2004, In: Journal of Immunology. 173, 1, p. 402 - 409 8 p.

Novel strategy for identification of candidate cytotoxic T-cell epitopes from human preproinsulin
Chang, L., Kjer-Nielsen, L., Flynn, S., Brooks, A. G., Mannering, S. I., Honeyman, M. C., Harrison, L. C., McCluskey, J. & Purcell, A. W., 1 Nov 2003, In: Tissue Antigens. 62, 5, p. 408-417 10 p.

Preface: Peptides - From discovery to therapeutics
Lew, R., Aguilar, M. & Purcell, A., 1 Nov 2003, In: Letters in Peptide Science. 10, 5-6, 1 p.

Association of stress proteins with autoantigens: A possible mechanism for triggering autoimmunity?
Purcell, A. W., Todd, A., Kinoshita, G., Lynch, T. A., Keech, C. L., Gething, M. J. & Gordon, T. P., 1 May 2003, In: Clinical & Experimental Immunology. 132, 2, p. 193-200 8 p.

Dissecting the role of peptides in the immune response: Theory, practice and the application to vaccine design
Purcell, A. W., Zeng, W., Mifsud, N. A., Ely, L. K., Macdonald, W. A. & Jackson, D. C., 1 May 2003, In: Journal of Peptide Science. 9, 5, p. 255-281 27 p.

A sensitive method for detecting proliferation of rare autoantigen- specific human T cells
Mannering, S. I., Morris, J. S., Jensen, K. P., Purcell, A. W., Honeyman, M. C., Van Endert, P. M. & Harrison, L. C., 1 Jan 2003, In: Journal of Immunological Methods. 283, 1-2, p. 173-183 11 p.

Human T-cells recognise N-terminally Fmoc-modified peptide
Mannering, S. I., Purcell, A. W., Honeyman, M. C., McCluskey, J. & Harrison, L. C., 1 Jan 2003, In: Vaccine. 21, 25-26, p. 3638-3646 9 p.

A naturally selected dimorphism within the HLA-B44 supertype alters Class I structure, peptide repertoire, and T cell recognition
Macdonald, W. A., Purcell, A. W., Mifsud, N. A., Ely, L. K., Williams, D. S., Chang, L., Gorman, J. J., Clements, C. S., Kjer-Nielsen, L., Koelle, D. M., Burrows, S. R., Tait, B. D., Holdsworth, R., Brooks, A. G., Lovrecz, G. O., Lu, L., Rossjohn, J. & McCluskey, J., 2003, In: Journal of Experimental Medicine. 198, 5, p. 679 - 691 13 p.

A structural basis for the selection of dominant T cell receptors in antiviral immunity
Kjer-Nielsen, L., Clements, C. S., Purcell, A. W., Brooks, A. G., Whisstock, J. C., Burrows, S. R., McCluskey, J. & Rossjohn, J., 2003, In: Immunity. 18, 1, p. 53 - 64 12 p.

Optimisation of peptide-based cytotoxic T-cell determinants using non-natural amino acids
Webb, A. I., Aguilar, M.-I. & Purcell, A. W., 2003, In: Letters in Peptide Science. 10, 5, p. 561 - 569 9 p.

The production, purification and crystallization of a soluble heterodimeric form of a highly selected T-cell receptor in its unliganded and liganded state
Clements, C. S., Kjer-Nielsen, L., MacDonald, W. A., Brooks, A. G., Purcell, A. W., McCluskey, J. & Rossjohn, J., 1 Dec 2002, In: Acta Crystallographica Section D: Biological Crystallography. 58, 12, p. 2131-2134 4 p.

Identification of an I-A^d restricted peptide on the 65-kilodalton heat shock protein of Mycobacterium avium
Nagabhushanam, V., Purcell, A. W., Mannering, S., Germano, S., Praszkier, J. & Cheers, C., 26 Nov 2002, In: Immunology and Cell Biology. 80, 6, p. 574-583 10 p.

The 1.5 Å crystal structure of a highly selected antiviral T cell receptor provides evidence for a structural basis of immunodominance
Kjer-Nielsen, L., Clements, C. S., Brooks, A. G., Purcell, A. W., McCluskey, J. & Rossjohn, J., 1 Nov 2002, In: Structure. 10, 11, p. 1521-1532 12 p.

The structure of HLA-B8 complexed to an immunodominant viral determinant: Peptide-induced conformational changes and a mode of MHC class I dimerization
Kjer-Nielsen, L., Clements, C. S., Brooks, A. G., Purcell, A. W., Fontes, M. R., McCluskey, J. & Rossjohn, J., 1 Nov 2002, In: Journal of Immunology. 169, 9, p. 5153-5160 8 p.

Restricted specificity of intermolecular spreading to endogenous La (SS-B) and 60 kDA Ro (SS-A) in experimental autoimmunity
Gordon, T. P., Kinoshita, G., Cavill, D., Keech, C., Farris, A. D., Kaufman, K., McCluskey, J. & Purcell, A. W., 27 Jul 2002, In: Scandinavian Journal of Immunology. 56, 2, p. 168-173 6 p.

Optimization of the MHC class I peptide cargo is dependent on tapasin
Williams, A. P., Peh, C. A., Purcell, A. W., McCluskey, J. & Elliott, T., 1 Jan 2002, In: Immunity. 16, 4, p. 509-520 12 p.

The central role played by peptides in the immune response and the design of peptide-based vaccines against infectious diseases and cancer
Jackson, D. C., Purcell, A. W., Fitzmaurice, C. J., Zeng, W. & Hart, D. N. J., 1 Jan 2002, In: Current Drug Targets. 3, 2, p. 175-196 22 p.

Identification of a dominant self-ligand bound to three HLA B44 alleles and the preliminary crystallographic analysis of recombinant form of each complex
Macdonald, W., Williams, D. S., Gorman, J. J., Kjer-Nielsen, L., Brooks, A. G., McCluskey, J., Rossjohn, J. & Purcell, A. W., 2002, In: FEBS Letters. 527, 1-3, p. 27 - 32 6 p.

The 1.5 Crystal Structure of a Highly Selected Antiviral T Cell Receptor Provides Evidence for a Structural Basis of Immonodominance
Kjer-Nielsen, L., Clements, C. S., Brooks, A. G., Purcell, A. W., McClusky, J. & Rossjohn, J., 2002, In: Structure. 10, 11, p. 1521 - 1532 12 p.

The production, purification and crystallization of a soluble heterdimeric form of a highly selected T-cell receptor in its unliganded and liganded state
Clements, C. S., Kjer-Nielsen, L., Macdonald, W. A., Brooks, A. G., Purcell, A. W., McClusky, J. & Rossjohn, J., 2002, In: Acta Crystallographica Section D: Biological Crystallography. 58, 12, p. 2131 - 2134 4 p.

The structure of HLA-B8 complexed to an immunodominant viral determinant: peptide-induced conformational changes and a mode of MHC class 1 dimerisation1
Kjer-Nielsen, L., Clements, C. S., Brooks, A. G., Purcell, A. W., Fontes, M. R., McCluskey, J. & Rossjohn, J., 2002, In: Journal of Immunology. 169, 9, p. 5153 - 5160 8 p.

The use of post-source decay in matrix-assisted laser desorption/ionisation mass spectrometry to delineate T cell determinants
Purcell, A. W. & Gorman, J. J., 1 Mar 2001, In: Journal of Immunological Methods. 249, 1-2, p. 17-31 15 p.

Quantitative and qualitative influences of tapasin on the class I peptide repertoire
Purcell, A. W., Gorman, J. J., Garcia-Peydró, M., Paradela, A., Burrows, S. R., Talbo, G. H., Laham, N., Chen Au Peh, A. P., Reynolds, E. C., López de Castro, J. A. & McCluskey, J., 15 Jan 2001, In: Journal of Immunology. 166, 2, p. 1016-1027 12 p.

Tapasin-mediated retention and optimization of peptide ligands during the assembly of class I molecules
Barnden, M. J., Purcell, A. W., Gorman, J. J. & McCluskey, J., 1 Jul 2000, In: Journal of Immunology. 165, 1, p. 322-330 9 p.

Endogenous and exogenous factors contributing to the surface expression of HLA B27 on mutant APC
Purcell, A. W., Kelly, A. J., Peh, C. A., Dudek, N. L. & McCluskey, J., 1 Feb 2000, In: Human Immunology. 61, 2, p. 120-130 11 p.

The peptide-loading complex and ligand selection during the assembly of HLA class I molecules
Purcell, A. W., 1 Jan 2000, In: Molecular Immunology. 37, 9, p. 483-492 10 p.

Comparison between the isocratic and gradient retention behaviour of polypeptides in reversed-phase liquid chromatographic environments
Purcell, A. W., Zhao, G. L., Aguilar, M. I. & Hearn, M. T. W., 6 Aug 1999, In: Journal of Chromatography A. 852, 1, p. 43-57 15 p.

Probing the binding behavior and conformational states of globular proteins in reversed-phased high-performance liquid chromatography
Purcell, A. W., Aguilar, M. I. & Hearn, M. T. W., 1 Jul 1999, In: Analytical Chemistry. 71, 13, p. 2440-2451 12 p.

Molecular chaperones are targets of autoimmunity in Ro(SS-A) immune mice
Kinoshita, G., Purcell, A. W., Keech, C. L., Farris, A. D., McCluskey, J. & Gordon, T. P., 1 Jan 1999, In: Clinical & Experimental Immunology. 115, 2, p. 268-274 7 p.

Elucidation of functionally significant structural modifications by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry with post-source decay
German, J. J., Purcell, A. W., Ferguson, B. L., Lopaticki, S., Morrow, C. J. & Mineva, E., 12 Sept 1998, In: Journal of Protein Chemistry. 17, 6, p. 526-527 2 p.

Determinant spreading: Lessons from animal models and human disease
McCluskey, J., Farris, A. D., Keech, C. L., Purcell, A. W., Rischmueller, M., Kinoshita, G., Reynolds, P. & Gordon, T. P., 1 Aug 1998, In: Immunological Reviews. 164, p. 209-229 21 p.

Spreading of the immune response from 52 kDaRo and 60 kDaRo to calreticulin in experimental autoimmunity
Kinoshita, G., Keech, C. L., Sontheimer, R. D., Purcell, A., McCluskey, J. & Gordon, T. P., 9 Feb 1998, In: Lupus. 7, 1, p. 7-11 5 p.

Avoidance of self-reactivity results in skewed CTL responses to rare components of synthetic immunogens
Purcell, A. W., Chen, W., Ede, N. J., Gorman, J. J., Fecondo, J. V., Jackson, D. C., Zhao, Y. & McCluskey, J., 1 Feb 1998 , In: Journal of Immunology. 160, 3, p. 1085-1090 6 p.

RP-HPLC binding domains of proteins
Aguilar, M.-I., Clayton, D. J., Holt, P., Kronina, V., Boysen, R. I., Purcell, A. W. & Hearn, M. T. W., 1998, In: Analytical Chemistry. p. 5010 - 5018 9 p.

Hierarchical self-tolerance to T cell determinants within the ubiquitous nuclear self-antigen La (SS-B) permits induction of systemic autoimmunity in normal mice
Reynolds, P., Gordon, T. P., Purcell, A. W., Jackson, D. C. & McCluskey, J., 1 Nov 1996, In: Journal of Experimental Medicine. 184, 5, p. 1857-1870 14 p.

CTL Recognition of an Altered Peptide Associated with Asparagine Bond Rearrangement: Implications for Immunity and Vaccine Design
Chen, W., Ede, N. J., Jackson, D. C., McCluskey, J. & Purcell, A. W., 1 Aug 1996, In: Journal of Immunology. 157, 3, p. 1000-1005 6 p.

Nonprecipitating anti-La(SS-B) autoantibodies in primary Sjogren's syndrome
Beer, R. G., Rischmueller, M., Coates, T., Purcell, A. W., Keech, C. L., McCluskey, J. & Gordon, T. P., 1 Jan 1996, In: Clinical Immunology and Immunopathology. 79, 3, p. 314-318 5 p.

The accessibility of the prosthetic group biotin during monomeric avidin affinity chromatography
Purcell, A. W. & Wallace, J. C., 1 Jan 1996, In: Analytical Biochemistry. 238, 2, p. 213-216 4 p.

Conformational effects in reversed-phase high-performance liquid chromatography of polypeptides II. The role of insulin A and B chains in the chromatographic behaviour of insulin
Purcell, A. W., Aguilar, M. I. & Hearn, M. T. W., 8 Sept 1995, In: Journal of Chromatography A. 711, 1, p. 71-79 9 p.

Conformational effects in reversed-phase high-performance liquid chromatography of polypeptides I. Resolution of insulin variants
Purcell, A. W., Aguilar, M. I. & Hearn, M. T. W., 8 Sept 1995, In: Journal of Chromatography A. 711, 1, p. 61-70 10 p.

Identification and synthesis of altered peptides modulating T cell recognition of a synthetic peptide antigen.
Ede, N. J., Chen, W., McCluskey, J., Jackson, D. C. & Purcell, A. W., 1 Jan 1995, In: Biomedical Peptides, Proteins & Nucleic Acids: Structure, Synthesis & Biological Activity. 1, 4, p. 231-234 4 p.

Induction of amphipathic helical peptide structures in RP-HPLC.
Purcell, A. W., Aguilar, M. I., Wettenhall, R. E. & Hearn, M. T., 1 Jan 1995, In: Peptide Research. 8, 3, p. 160-170 11 p.

High-Performance Liquid Chromatography of Amino Acids, Peptides, and Proteins. 123. Dynamics of Peptides in Reversed-Phase High-Performance Liquid Chromatography
Purcell, A. W., Aguilar, M. I. & Hearn, M., 1 Nov 1993, In: Analytical Chemistry. 65, 21, p. 3038-3047 10 p.

High-performance liquid chromatography of amino acids, peptides and proteins CXV. Thermodynamic behaviour of peptides in reversed-phase chromatography
Purcell, A. W., Aguilar, M. I. & Hearn, M. T. W., 28 Feb 1992, In: Journal of Chromatography A. 593, 1-2, p. 103-117 15 p.

High-performance liquid chromatography of amino acids, peptides and proteins. XC. Investigations into the relationship between structure and reversed-phase high-performance liquid chromatography retention behaviour of peptides related to human growth hormone
Purcell, A. W., Aguilar, M. I. & Hearn, M. T. W., 1 Jan 1989, In: Journal of Chromatography A. 476, C, p. 113-123 11 p.

High-performance liquid chromatography of amino acids, peptides and proteins. XCI. The influence of temperature on the chromatographic behaviour of peptides related to human growth hormone
Purcell, A. W., Aguilar, M. I. & Hearn, M. T. W., 1 Jan 1989, In: Journal of Chromatography A. 476, C, p. 125-133 9 p.