

Sydney Australia IUPHAR Mentoring Center

Site

Geriatric Pharmacology, University of Sydney, Royal North Shore Hospital and Centre for Education and Research on Ageing (CERA) Concord Hospital

Addresses

Royal North Shore Hospital, Reserve Road, St Leonards NSW 2065, Australia
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Contact

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Prof David Le Couteur david.lecouteur@sydney.edu.au

Affiliations

- Kolling Institute of Medical Research
- Ageing and Alzheimer's Institute
- ANZAC Research Institute
- Charles Perkins Centre

Key individuals (and expertise)

- Prof Sarah Hilmer, Geriatric clinical pharmacology, research and practice
- Prof David Le Couteur, Geriatric clinical pharmacology, research and practice
- Dr Danijela Gnjidic, Geriatric pharmaco-epidemiology research
- Prof Andrew McLachlan, Geriatric pharmacy research and practice

Research expertise

- Pre-clinical studies of ageing and geriatric pharmacology
- Cohort studies of ageing and pharmaco-epidemiology
- Observational and interventional clinical studies of geriatric patients
- Polypharmacy and deprescribing

Opportunities on offer

- Email/Skype advice on research in our areas of expertise
- Potential relevant collaborations in areas of mutual interest
- Willing to host self-funded visitors/fellowships in areas of mutual interest

Selected Publications

1. Huizer-Pajkos A, Kane AE, Howlett SE, Mach J, Mitchell SJ, de Cabo R, Le Couteur DG, Hilmer SN. Adverse Geriatric Outcomes Secondary to Polypharmacy in a Mouse Model: The Influence of Aging. *J Gerontol A Biol Sci Med Sci*. 2016; 71:571-7.
2. Gnjidic D, Hilmer SN, Blyth FM, et al. Polypharmacy cutoff and outcomes: five or more medicines were used to identify community-dwelling older men at risk of different adverse outcomes. *J Clin Epidemiol* 2012; 65: 989-95.
3. Hilmer SN, Tran K, Rubie P, Wright J, Gnjidic D, Mitchell S, Matthews S, Carroll P.

- Gentamicin pharmacokinetics in old age and frailty. *BJCP* (2011); 71: 224-231
4. Scott IA, Hilmer SN, Reeve E, et al. Reducing inappropriate polypharmacy: the process of deprescribing. *JAMA Intern Med.* 2015 May;175(5):827-34.
 5. Le Couteur DG, McLachlan AJ, Quinn RJ, Simpson SJ, de Cabo R. Aging biology and novel targets for drug discovery. *Journal of Gerontology A Biol Sci Med Sci* 67;168-74, 2012.
 6. Mohamad M, Mitchell SJ, Wu LE, White MY, Cordwell SJ, Mach J, Solon-Biet SM, Boyer D, Nines D, Das A, SC Li, Warren A, Hilmer SN, Fraser R, Sinclair DA, Simpson SJ, de Cabo R, Le Couteur DG, Cogger VC. Ultrastructure of the liver microcirculation influences hepatic and systemic insulin activity and provides a mechanism for age-related insulin resistance. *Aging Cell* (epub ahead of print)
 7. Hilmer, S.N., Mager, D.E., Simonsick, E.M., Cao, Y., Ling, S.M., Windham, B.G., Harris, T.B., Hanlon, J.T., Rubin, S.M., Shorr, R.I., Bauer, D.C., Abernethy, D.R. A drug burden index to define the functional burden of medications in older people. *Archives of Internal Medicine* 2007 167 (8): 781-787.