CURRICULUM VITAE

JEFFREY R. IDLE

Internationally renowned researcher in metabolism and metabolomics with a strong background in biochemistry and analytical chemistry. Discoverer of the first genetic polymorphism in cytochrome P450 with a significant impact on drug and environmental chemical metabolism. Metabolites form the bond between

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4. Journal editorial boards and reviewing

Biochemical Pharmacology (2022 IF = 6.1) – Editorial Board member (2010-present)

In addition, currently ad hoc reviewer for ACS Books, Am J Primatol, Animal Biol, Annals of Medicine, BBA Clin, Carcinogenesis, Clin Cancer Res, Curr Pharmacol Rep, Drug Metab Dispos, Drug Metab Rev, DNA Repair, Hepatology, Internat J Radiat Biol, J Chromatogr B, J Hepatol, J

peripheral or bone marrow blasts and an unfavorable prognostic risk. Conversely, plasma PGF2 . was predominantly elevated in AML patients with low peripheral or bone marrow blasts and with a favorable prognostic risk. These and other findings in this report (Pabst *et al.*, 2017) are leading to novel insights into the pathobiology of AML.

In summary, my research experience over four decades can best be described as multidisciplinary translational research in the field of cancer and preneoplastic disease. There has been a significant focus on cancer etiology, specifically, *CYP2D6* as the first susceptibility gene for lung cancer (Ayesh *et al.*, 1984; Caporaso *et al.*, 1989a,b; Law *et al.*, 1989), *GSTM1* in bladder cancer (Daly *et al.*, 1993) and *CYP2D6* in breast cancer (Pontin *et al.*, 1990). Moreover, we have applied metabolomics to the discovery of cancer biomarkers and improved insights into cancer mechanisms. Examples include hepatocellular carcinoma (Patterson *et al.*, 2011; Beyo ‡u *et al.*, 2013), lung cancer (Mathé *et al.*, 2014), acute myeloid leukemia (Pabst *et al.*, 2017), lipidome reprogramming in relation to the murine tumor suppressor gene *Hint1* (Beyo ‡u *et al.*

Jeffrey R. Idle, PhD, DSc

f. Long Island University Brooklyn

2020-2022 California Table Grape Commission \$89,000 2022 (pending) Ambys Medicines \$278,769

I therefore have a record of competitive grant funding in several different countries.

Balthazar Schmid, PhD (CH) London 1982-84 Pharmacy owner, Luzern, Switzerland

Nicholas S. Oates, PhD (UK) London 1983-85? London

- is now Pro-Vice-Chancellor for Learning and Teaching, the other, a professor of pharmacogenetics. This shows clear evidence of mentoring junior staff.
- (iii) Establishment *ab initio* of the Department of Medical Genetics (*Medisinsk Genetikk avdelingen*), Regional Teaching Hospital, Trondheim, Norway which ran local and national clinical laboratory services, including the first national routine service worldwide for clinical pharmacogenetics (1996-1998). The department also housed a SCIEX API 150 triple quadrupole mass spectrometer, the first TQMS in Norway.
- (iv) Establishment, in collaboration with Dr. Frank J. Gonzalez, an internationally visible research group in metabolomics at the Laboratory of Metabolism, Center for Cancer Research, National Cancer Institute, Bethesda (2004-). The group began with a single UPLC-ESI-QTOFMS funded by an award from the NCI director. We were successful in raising funds to purchase several more MS platforms, which now total nine. In this period, funding for radiation metabolomics was awarded to the lab from NIAID/NIH.
- (v) The establishment in 1991 of the high impact pharmacology/toxicology/genetics journal *Pharmacogenetics*, later renamed *Pharmacogenetics and Genomics*, currently in its 31st year and volume.
- (vi) The launch in 1992 of the campus-based biotechnology limited company GenoType Ltd., which rapidly became the world leader in the provision of genetic services to both the pharmaceutical industry in Europe, the USA and Japan, and US governmental research institutions. GenoType Ltd. was able to both raise venture capital and to develop patentable e5p

- 3. Professor Andrea De Gottardi, Gastroenterology and Hepatology, Ente Ospedaliero Cantonale, Lugano, Switzerland. Email: andrea.degottardi@insel.ch. Tel: +41 91 811 7637 [senior colleague and collaborator when in Bern].
- 4. Professor David Gordon, President, World Federation for Medical Education, 01210 Ferney-Voltaire, France. Email: president@wfme.org. Tel: +33 4 50 59 20 07 [contemporary and colleague at St Mary's Hospital Medical School, London].

12. Scientific publications

Over 430 original scientific articles, reviews, editorials and communications. Ranked in the **top 0.44%** in Pharmacology and Pharmacy (413/94,611) and in the **top 0.17%** of 230,678 worldwide researchers in oncology and carcinogenesis by Stanford University Top 2% Database (Ioannidis JPA, et al. PLOS Biology 2020; https://doi.org/10.1371/journal.pbio.3000918.). Ranked in the **top 0.21%** of 114,350 worldwide published authors in metabolomics.

Complete publication list can be found at ORCID http://orcid.org/0000-0002-6143-1520

Total number of citations = 23,279; h-index = 84

287 Publications listed in PubMed; 284 in ORCID; 368 in Web of Science; 394 in Google Scholar (

- Manna SK, Patterson AD, Yang Q, Krausz KW, Li H, Idle JR, Fornace AJ, Gonzalez FJ. Identification of noninvasive biomarkers for alcohol-induced liver disease using urinary metabolomics and the Ppara-null mouse. J Proteome Res 2010; 9: 4176-4188.
- Li F, Patterson AD, Höfer CC, Krausz KW, Gonzalez FJ, Idle JR. Comparative metabolism of cyclophosphamide and ifosfamide in the mouse using UPLC-ESI-QTOFMS-based metabolomics. Biochem Pharmacol 2010; 80: 1063-1074.

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- Steen VM, Andreassen OA, Daly AK, Tefre T, Børresen A-L, Idle JR, Gyplbismolfen A0002 gx 027Gs6 Iatrogeni 1995, 55:6035-60374.

Chin - J, Cpoebao NEA,(Chig Y-a)]TJ204159 0 TD0 Tc.0403 pgenotypes ina Jordansiac ppulration. 1 in PharmacolTther 1995, 8: 57425473. Cholerton

- sequence of the human CYP2A genes and identification of variant CYP2A6 alleles. Am J Hum Genet 1995, 57: 651-660.
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- Tasso MJ, Boddy AV, Price L, Wyllie RA, Idle JR, Pearson ADJ. Pharmacokinetics and metabolism of cyclophosphamide in paediatric patients. Cancer Chemother Pharmacol 1992, 30: 207-211.
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- Ayesh R, Idle JR, Ritchie JC, Crothers MJ, Hetzel MR. Metabolic oxidation phenotypes as markers for susceptibility to lung cancer. Nature 1984; 312:169-170.
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- Ritchie JC, Mitchell SC, Idle JR, Smith RL. Sex dimorphism of metiamide sulphoxidation and glucuronidation in rodent species. Biochem Soc Trans 1983; 11: 183-184.
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- Evans DAP, Harmer D, Downham DY, Whibley EJ, Idle JR, Ritchie J, Smith RL. The genetic control of sparteine and debrisoquine metabolism in man with new methods of analysing bimodal distributions. J Med Genet 1983; 20: 321-329.
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B. Book chapters and review articles

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- Beyo ‡u D, Idle JR. Metabolomic insights into the mode of action of natural products in the treatment of liver disease. Biochem Pharmacol 2020; 180: 114171.
- Beyo 4u D, Idle JR. Metabolomic and lipidomic biomarkers for premalignant liver disease diagnosis and therapy. Metabolites 2020; 10: 50, 1-56; doi:10.3390/metabo10020050
- Beyo 4u D, Zhou Y, Chen C, Idle JR. Mass isotopomer-guided decluttering of metabolomic data to visualize endogenous biomarkers of drug toxicity. Biochem Pharmacol 2018; 156: 491-500.
- Beyo 4u D, Idle JR. A history and overview of phenotypic variability in CYP2D6 activity. In: CYP2D6: Genetics, Pharmacology and Clinical Relevance (Baumann P, Ed.), Future Medicine, London, 2014, p. 8-27.
- Beyo 4u D, Idle JR. Painting the liver with lasers: The future of liver histology? Hepatology 2013; 59: 757-760.
- Beyo 1u D, Idle JR. The metabolomic window into hepatobiliary disease. J Hepatol 2013; 59: 842-858.
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- Tyburski J. Krausz K, Gonzalez F, Idle J. High-throughput, minimally invasive radiation biodosimetry in the mouse using metabolomics. NIH Research Festival, October 14-17, 2008, Abstract PHYSIO-10.
- Patterson A, Eichler G, Krausz K, Aslam S, Weinstein J, Hansen B, Idle J, Gonzalez F. Redefining the complex metabolic phenotype of type 2 diabetes by UPLC-ESI-TOFMS-based metabolomics profiling of rhesus macaque urine. NIH Research Festival, October 14-17, 2008, Abstract ENDO-5.
- Cheng J, Zhen YY, Krausz K, Idle J, Gonzalez F. Human CYP2D6-transgenic mouse. A model for the CYP2D6 polymorphism. NIH Research Festival, October 14-17, 2008, Abstract PHARM-2.
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Küpfer A, Idle JR, Cerny T. Uroprotective activity of mesna in man and pH-dependent velocities of chloroacetaldehde inactivation by thiol groups. Naun-Schm Arch Pharmacol, 1991; 344 Suppl. 1: R53

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