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Medical Genetics Summaries Expert Reviewers

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Created: June 29, 2017; Updated: December 12, 2023.

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- [Cetuximab Therapy and *RAS* and *BRAF* Genotype](#)

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- [Carbamazepine Therapy and *HLA* Genotype](#)
- [Carvedilol Therapy and *CYP2D6* Genotype](#)
- [Warfarin Therapy and *VKORC1* and *CYP* Genotype](#)

Amstutz, Ursula, PhD; University of Bern, Bern, Switzerland

- [Carbamazepine Therapy and *HLA* Genotype](#)

Appell, Malin Lindqvist, PhD; Linköping University, Linköping, Sweden

- [Thioguanine Therapy and *TPMT* Genotype](#)

Badary, Osama A., PhD, MSc; The British University in Egypt, Cairo, Egypt

- [Chloroquine Therapy and *G6PD* Genotype](#)

Bancone, Germana, PhD; University of Oxford, Oxford, UK

- [Hydroxychloroquine Therapy and *G6PD* Genotype](#)

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- [Dronabinol Therapy and *CYP2C9* Genotype](#)

Beam, Teresa, PhD; Manchester University, North Manchester, IN, USA

- [Sofosbuvir Therapy and *IFNL4* Genotype](#)

Beckers, Albert, MD, PhD; University of Liège, Liège, Belgium

- [McCune-Albright Syndrome](#)

Beitelshees, Amber, PharmD, MPH, FAHA, FCCP; Baltimore, MD, USA

- [Clopidogrel Therapy and *CYP2C19* Genotype](#)

Bitner-Glindzicz, Maria, PhD, FRCP; University College London, London, UK

- [Gentamicin Therapy and *MT-RNR1* Genotype](#)

Bousman, Chad, MPH, PhD; University of Calgary, Calgary, AB, Canada

- [Venlafaxine Therapy and *CYP2D6* Genotype](#)

Brauch, Hiltrud, PhD; Dr. Margarete Fischer-Bosch-Institute of Clinical Pharmacology (IKP), Stuttgart, Germany

- [Tamoxifen Therapy and *CYP2D6* Genotype](#)

Brown, Jacob T., PharmD, MS; University of Minnesota College of Pharmacy, Duluth, MN, USA

- [Atomoxetine Therapy and *CYP2D6* Genotype](#)

Burstein, Harold, MD, PhD; Harvard Medical School, Boston, MA, USA

- [Tamoxifen Therapy and *CYP2D6* Genotype](#)

Callaghan, John, MD, PhD; Indiana University School of Medicine, Indianapolis, IN, USA

- [Carisoprodol Therapy and *CYP2C19* Genotype](#)
- [Propafenone Therapy and *CYP2D6* Genotype](#)
- [Risperidone Therapy and *CYP2D6* Genotype](#)

Carpenter, William, MD; University of Maryland School of Medicine, Baltimore, MD, USA

- [Clozapine Therapy and *CYP2D6*, *CYP1A2*, and *CYP3A4* Genotype](#)

Cavallari, Larisa H., PharmD; University of Florida, Gainesville, FL, USA

- [Clopidogrel Therapy and *CYP2C19* Genotype](#)
- [Codeine Therapy and *CYP2D6* Genotype](#)
- [Metoprolol Therapy and *CYP2D6* Genotype](#)

Chapman, Paul, MD; Memorial Sloan Kettering Cancer Center, New York, NY, USA

- [Vemurafenib Therapy and *BRAF* and *NRAS* Genotype](#)

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- [Thioguanine Therapy and *TPMT* and *NUDT15* Genotype](#)

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- [Azathioprine Therapy and *TPMT* and *NUDT15* Genotype](#)

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- [Tafenoquine Therapy and *G6PD* Genotype](#)

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- [Codeine Therapy and *CYP2D6* Genotype](#)

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- [Tamoxifen Therapy and *CYP2D6* Genotype](#)

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- [McCune-Albright Syndrome](#)

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- [Cetuximab Therapy and *RAS* and *BRAF* Genotype](#)

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- [Aripiprazole Therapy and *CYP2D6* Genotype](#)
- [Diazepam Therapy and *CYP2C19* Genotype](#)

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- [Atomoxetine Therapy and *CYP2D6* Genotype](#)
- [Azathioprine Therapy and *TPMT* and *NUDT15* Genotype](#)
- [Carvedilol Therapy and *CYP2D6* Genotype](#)
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- [Phenytoin Therapy and *HLA-B*15:02* and *CYP2C9* Genotype](#)
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- [Venlafaxine Therapy and *CYP2D6* Genotype](#)
- [Warfarin Therapy and *VKORC1* and *CYP* Genotype](#)

Eugene, Andy; MD, PhD; Shenandoah University - Fairfax Inova Center for Personalized Health, Fairfax, VA, USA

- [Lesinurad Therapy and *CYP2C9* Genotype](#)

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- [Cetuximab Therapy and *RAS* and *BRAF* Genotype](#)

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- [Warfarin Therapy and *VKORC1* and *CYP* Genotype](#)

Franciosi, James P., MD, MS; Nemours Children's Hospital, University of Central Florida College of Medicine, Orlando, FL, USA

- [Omeprazole Therapy and *CYP2C19* Genotype](#)

Gaedigk, Andrea, MS, PhD; University of Missouri, Kansas City, MO, USA

- [Aripiprazole Therapy and *CYP2D6* Genotype](#)
- [Atomoxetine Therapy and *CYP2D6* Genotype](#)
- [CYP2D6 Overview: Allele and Phenotype Frequencies](#)

Gage, Brian, MSc, MD; Washington University, St. Louis, MO, USA

- [Warfarin Therapy and *VKORC1* and *CYP* Genotype](#)

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- Tramadol Therapy and *CYP2D6* Genotype

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- Celecoxib Therapy and *CYP2C9* Genotype

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- Flurbiprofen Therapy and *CYP2C9* Genotype
- Lesinurad Therapy and *CYP2C9* Genotype
- Piroxicam Therapy and *CYP2C9* Genotype
- Oxycodone Therapy and *CYP2D6* Genotype
- Risperidone Therapy and *CYP2D6* Genotype

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- Chloroquine Therapy and *G6PD* Genotype

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- Dabrafenib Therapy and *BRAF* and *G6PD* Genotype
- Vemurafenib Therapy and *BRAF* and *NRAS* Genotype

Henrich, Timothy, MD; Brigham and Women's Hospital, Cambridge, MA, USA

- Maraviroc Therapy and *CCR5* Genotype

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- Capecitabine Therapy and *DPYD* Genotype
- Fluorouracil Therapy and *DPYD* Genotype

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- Cetuximab Therapy and *RAS* and *BRAF* Genotype

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- Methylene tetrahydrofolate Reductase Deficiency

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- Fluorouracil Therapy and *DPYD* Genotype

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- Abacavir Therapy and *HLA-B*57:01* Genotype
- Carbamazepine Therapy and *HLA* Genotype
- Carvedilol Therapy and *CYP2D6* Genotype
- Clopidogrel Therapy and *CYP2C19* Genotype
- Esomeprazole Therapy and *CYP2C19* Genotype
- Tamoxifen Therapy and *CYP2D6* Genotype
- Venlafaxine Therapy and *CYP2D6* Genotype

- [Warfarin Therapy and *VKORC1* and *CYP* Genotype](#)

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- [Trastuzumab Therapy and *ERBB2* \(HER2\) Genotype](#)

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- [Trastuzumab Therapy and *ERBB2* \(HER2\) Genotype](#)

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- [Irinotecan Therapy and *UGT1A1* Genotype](#)

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- [Dabrafenib Therapy and *BRAF* and *G6PD* Genotype](#)

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- [Siponimod Therapy and *CYP2C9* Genotype](#)

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- [Schizophrenia](#)

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- [Dabrafenib Therapy and *BRAF* and *G6PD* Genotype](#)

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- [Fluorouracil Therapy and *DPYD* Genotype](#)

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- [Phenytoin Therapy and *HLA-B*15:02* and *CYP2C9* Genotype](#)

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- [Diazepam Therapy and *CYP2C19* Genotype](#)
- [Simeprevir Therapy and *IFNL3* Genotype](#)

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- [Tramadol Therapy and *CYP2D6* Genotype](#)

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- [Carbamazepine Therapy and *HLA* Genotype](#)
- [Gentamicin Therapy and *MT-RNR1* Genotype](#)

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- [Amitriptyline Therapy and *CYP2D6* and *CYP2C19* Genotype](#)
- [Imipramine Therapy and *CYP2D6* and *CYP2C19* Genotype](#)

- Sofosbuvir Therapy and *IFNL4* Genotype
- Thioridazine Therapy and *CYP2D6* Genotype

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- Belinostat Therapy and *UGT1A1* Genotype
- Brivaracetam Therapy and *CYP2C19* Genotype
- Carisoprodol Therapy and *CYP2C19* Genotype
- Dabrafenib Therapy and *BRAF* Genotype
- Irinotecan Therapy and *UGT1A1* Genotype
- Lacosamide Therapy and *CYP2C19* Genotype
- Propafenone Therapy and *CYP2D6* Genotype
- Risperidone Therapy and *CYP2D6* Genotype

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- Aripiprazole Therapy and *CYP2D6* Genotype
- Atomoxetine Therapy and *CYP2D6* Genotype

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- Thioguanine Therapy and *TPMT* Genotype

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- [Trastuzumab Therapy and ERBB2 \(HER2\) Genotype](#)

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- [Trastuzumab Therapy and ERBB2 \(HER2\) Genotype](#)

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- [Fluorouracil Therapy and *DPYD* Genotype](#)

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- [Clozapine Therapy and *CYP2D6*, *CYP1A2*, and *CYP3A4* Genotype](#)

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- [Gentamicin Therapy and *MT-RNR1* Genotype](#)

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- [Thioguanine Therapy and *TPMT* and *NUDT15* Genotype](#)
- [Mercaptopurine Therapy and *TPMT* and *NUDT15* Genotype](#)

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- [Lesinurad Therapy and *CYP2C9* Genotype](#)

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- [Eliglustat Therapy and *CYP2D6* Genotype](#)

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- Omeprazole Therapy and *CYP2C19* Genotype

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- Brivaracetam Therapy and *CYP2C19* Genotype
- Carisoprodol Therapy and *CYP2C19* Genotype
- Lacosamide Therapy and *CYP2C19* Genotype
- Propafenone Therapy and *CYP2D6* Genotype

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- Clozapine Therapy and *CYP* Genotype

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- Amitriptyline Therapy and *CYP2D6* and *CYP2C19* Genotype
- Capecitabine Therapy and *DPYD* Genotype
- Carbamazepine Therapy and *HLA* Genotype
- Carisoprodol Therapy and *CYP2C19* Genotype
- Fluorouracil Therapy and *DPYD* Genotype
- Flurbiprofen Therapy and *CYP2C9* Genotype
- Imipramine Therapy and *CYP2D6* and *CYP2C19* Genotype
- Lesinurad Therapy and *CYP2C9* Genotype
- Phenytoin Therapy and *HLA-B*15:02* and *CYP2C9* Genotype
- Piroxicam Therapy and *CYP2C9* Genotype
- Prasugrel Therapy and *CYP* Genotype
- Propafenone Therapy and *CYP2D6* Genotype
- Risperidone Therapy and *CYP2D6* Genotype
- Thioridazine Therapy and *CYP2D6* Genotype

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- Allopurinol Therapy and *HLA-B*58:01* Genotype
- Aripiprazole Therapy and *CYP2D6* Genotype
- Clozapine Therapy and *CYP* Genotype
- Codeine Therapy and *CYP2D6* Genotype
- Phenytoin Therapy and *HLA-B*15:02* and *CYP2C9* Genotype
- Tramadol Therapy and *CYP2D6* Genotype

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- [Maraviroc Therapy and *CCR5* Genotype](#)
- [Prasugrel Therapy and *CYP* Genotype](#)

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- [Abacavir Therapy and *HLA-B*57:01* Genotype](#)

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- [Fluorouracil Therapy and *DPYD* Genotype](#)
- [Risperidone Therapy and *CYP2D6* Genotype](#)
- [Warfarin Therapy and *VKORC1* and *CYP* Genotype](#)

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- [Phenytoin Therapy and *HLA-B*15:02* and *CYP2C9* Genotype](#)

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- [Dabrafenib Therapy and *BRAF* and *G6PD* Genotype](#)
- [Vemurafenib Therapy and *BRAF* and *NRAS* Genotype](#)

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- [Panitumumab Therapy and *RAS* and *BRAF* Genotype](#)

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- [Abacavir Therapy and *HLA-B*57:01* Genotype](#)
- [Rasburicase Therapy and *G6PD* and *CYB5R* Genotype](#)

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- [Venlafaxine Therapy and *CYP2D6* Genotype](#)

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- [Pertuzumab Therapy and *ERBB2 \(HER2\)* Genotype](#)

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- [Fluorouracil Therapy and *DPYD* Genotype](#)
- [Irinotecan Therapy and *UGT1A1* Genotype](#)

- [Maraviroc Therapy and *CCR5* Genotype](#)
- [Prasugrel Therapy and *CYP* Genotype](#)

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- [Panitumumab Therapy and *RAS* and *BRAF* Genotype](#)

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- [Atazanavir Therapy and *UGT1A1* Genotype](#)

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- [Capecitabine Therapy and *DPYD* Genotype](#)
- [Oxycodone Therapy and *CYP2D6* Genotype](#)

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- [Hydroxychloroquine Therapy and *G6PD* Genotype](#)

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- [Brivaracetam Therapy and *CYP2C19* Genotype](#)
- [Carbamazepine Therapy and *HLA* Genotype](#)
- [Clobazam Therapy and *CYP2C19* Genotype](#)
- [Phenytoin Therapy and *HLA-B*15:02* and *CYP2C9* Genotype](#)

Rosenzweig, Mark, PhD; Foundation Medicine Inc., Cambridge, MA, USA

- [Dabrafenib Therapy and *BRAF* and *G6PD* Genotype](#)
- [Vemurafenib Therapy and *BRAF* and *NRAS* Genotype](#)

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- [Abacavir Therapy and *HLA-B*57:01* Genotype](#)

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- [Amitriptyline Therapy and *CYP2D6* and *CYP2C19* Genotype](#)
- [Imipramine Therapy and *CYP2D6* and *CYP2C19* Genotype](#)
- [Thioridazine Therapy and *CYP2D6* Genotype](#)

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- [Pertuzumab Therapy and *ERBB2 \(HER2\)* Genotype](#)

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- [Aripiprazole Therapy and *CYP2D6* Genotype](#)
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- [Capecitabine Therapy and *DPYD* Genotype](#)

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- [Trastuzumab Therapy and *ERBB2 \(HER2\)* Genotype](#)

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- [Celecoxib Therapy and *CYP2C9* Genotype](#)
- [Codeine Therapy and *CYP2D6* Genotype](#)
- [Tramadol Therapy and *CYP2D6* Genotype](#)

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- [Tamoxifen Therapy and *CYP2D6* Genotype](#)

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- [Warfarin Therapy and *VKORC1* and *CYP* Genotype](#)

Scott, Stuart A., PhD, ABMGG, FACMG; Stanford University, Palo Alto, CA, USA

- [Allopurinol Therapy and *HLA-B*58:01* Genotype](#)
- [Amitriptyline Therapy and *CYP2D6* and *CYP2C19* Genotype](#)
- [Azathioprine Therapy and *TPMT* Genotype](#)

- Celecoxib Therapy and *CYP2C9* Genotype
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- Deutetrabenazine Therapy and *CYP2D6* Genotype
- Diazepam Therapy and *CYP2C19* Genotype
- Esomeprazole Therapy and *CYP2C19* Genotype
- Flibanserin Therapy and *CYP2C19* Genotype
- Gentamicin Therapy and *MT-RNR1* Genotype
- Imipramine Therapy and *CYP2D6* and *CYP2C19* Genotype
- Lacosamide Therapy and *CYP2C19* Genotype
- Mercaptopurine Therapy and *TPMT* and *NUDT15* Genotype
- Omeprazole Therapy and *CYP2C19* Genotype
- Pegloticase Therapy and *G6PD* Genotype
- Phenytoin Therapy and *HLA-B*15:02* and *CYP2C9* Genotype
- Rasburicase Therapy and *G6PD* and *CYB5R* Genotype
- Simeprevir Therapy and *IFNL3* Genotype
- Tamoxifen Therapy and *CYP2D6* Genotype
- Thioguanine Therapy and *TPMT* Genotype
- Venlafaxine Therapy and *CYP2D6* Genotype

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- Omeprazole Therapy and *CYP2C19* Genotype

Sharma, Amit, PhD; ICGEB, New Delhi, India

- Primaquine Therapy and *G6PD* and *CYP2D6* Genotype

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- Trastuzumab Therapy and *ERBB2* (HER2) Genotype

Shukla, Ashutosh M., MD; University of Florida and Veterans Health Care System, Gainesville, FL, USA

- Hydroxychloroquine Therapy and *G6PD* Genotype

Siasos, Gerasimos, MD, PhD, FCCP, FACC; Brigham and Women's Hospital, Boston, MA, USA

- Clopidogrel Therapy and *CYP2C19* Genotype

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- Allopurinol Therapy and *HLA-B*58:01* Genotype

Sissung, Tristan, PhD, MS; National Cancer Institute, Bethesda, MD, USA

- Belinostat Therapy and *UGT1A1* Genotype

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- Codeine Therapy and *CYP2D6* Genotype

Stavraka, Chara, MD, MRCP, PhD; King's College London/Guy's and St Thomas' NHS Foundation Trust, London, UK

- Capecitabine Therapy and *DPYD* Genotype

Stamp, Lisa, MBChB, FRACP, PhD; University of Otago, Christchurch, New Zealand

- [Allopurinol Therapy and *HLA-B*58:01* Genotype](#)

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- [Brivaracetam Therapy and *CYP2C19* Genotype](#)

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- [Carbamazepine Therapy and *HLA* Genotype](#)
- [Risperidone Therapy and *CYP2D6* Genotype](#)

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- [Pitt-Hopkins Syndrome](#)

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- [Eliglustat Therapy and *CYP2D6* Genotype](#)

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- [Siponimod Therapy and *CYP2C9* Genotype](#)

Thirumaran, Ranjit, MPharm, PhD; Genelex Labs, Seattle, WA, USA

- [Imipramine Therapy and *CYP2D6* and *CYP2C19* Genotype](#)

Thompson, Alex, MD, PhD; Duke University Medical Centre, Durham, NC, USA

- [Simeprevir Therapy and *IFNL3* Genotype](#)

Trenk, Dietmar, PhD; Albert Ludwig University of Freiburg, Freiburg, Germany

- [Clopidogrel Therapy and *CYP2C19* Genotype](#)

Tsunedomi, Ryouichi, PhD; Yamaguchi University Graduate School of Medicine, Yamaguchi, Japan

- [Irinotecan Therapy and *UGT1A1* Genotype](#)

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- [Dronabinol Therapy and *CYP2C9* Genotype](#)

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- [Amitriptyline Therapy and *CYP2D6* and *CYP2C19* Genotype](#)
- [Celecoxib Therapy and *CYP2C9* Genotype](#)
- [Flurbiprofen Therapy and *CYP2C9* Genotype](#)
- [Diazepam Therapy and *CYP2C19* Genotype](#)
- [Imipramine Therapy and *CYP2D6* and *CYP2C19* Genotype](#)
- [Lesinurad Therapy and *CYP2C9* Genotype](#)
- [Piroxicam Therapy and *CYP2C9* Genotype](#)
- [Warfarin Therapy and *VKORC1* and *CYP* Genotype](#)

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- [Trastuzumab Therapy and *ERBB2* \(HER2\) Genotype](#)

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- Amitriptyline Therapy and *CYP2D6* and *CYP2C19* Genotype
- Imipramine Therapy and *CYP2D6* and *CYP2C19* Genotype
- Fluorouracil Therapy and *DPYD* Genotype
- Metoprolol Therapy and *CYP2D6* Genotype
- Omeprazole Therapy and *CYP2C19* Genotype
- Propafenone Therapy and *CYP2D6* Genotype
- Risperidone Therapy and *CYP2D6* Genotype

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- Chloroquine Therapy and *G6PD* Genotype

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- Propafenone Therapy and *CYP2D6* Genotype

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- Allopurinol Therapy and *HLA-B*58:01* Genotype
- Atomoxetine Therapy and *CYP2D6* Genotype
- Esomeprazole Therapy and *CYP2C19* Genotype
- Irinotecan Therapy and *UGT1A1* Genotype
- Omeprazole Therapy and *CYP2C19* Genotype

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- Maraviroc Therapy and *CCR5* Genotype

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- Panitumumab Therapy and *RAS* and *BRAF* Genotype

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- *CYP2D6* Overview: Allele and Phenotype Frequencies

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- Metoprolol Therapy and *CYP2D6* Genotype

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- Dronabinol Therapy and *CYP2C9* Genotype

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- Omeprazole Therapy and *CYP2C19* Genotype

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- Dabrafenib Therapy and *BRAF* Genotype

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- Irinotecan Therapy and *UGT1A1* Genotype

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- [Mercaptopurine Therapy and *TMPT* and *NUDT15* Genotype](#)

Zujewski, Jo Anne, MD; National Cancer Institute, Bethesda, MD, USA

- [Pertuzumab Therapy and *ERBB2* \(*HER2*\) Genotype](#)

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