

# CURRICULUM VITAE

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POSTDOCTORAL RESEARCH ASSOCIATE

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## EDUCATION

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<u>Institution</u>	<u>Degree</u>	<u>Year</u>
University of Bath Department of Pharmacy and Pharmacology Bath, UK	Ph.D. Medicinal Chemistry	2009-2014
<u>Dissertation Advisor:</u> Prof. Barry V. L. Potter; <u>Dissertation Title:</u> "Targeting estrogen biosynthesis and estrogen receptor signaling pathways for the treatment of cancer."		
University of Pisa Faculty of Pharmacy Department of Pharmaceutical Chemistry and Technology Pisa, Italy	Laurea Magistrale (Master's equivalent) Pharmaceutical Chemistry and Technology	2000-2008
<u>Dissertation Advisor:</u> Prof. Filippo Minutolo; <u>Dissertation Title:</u> "New potential antitumoral agents endowed with modulatory activity on glucidic metabolism."		

## RESEARCH/WORK EXPERIENCE

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<u>Institution</u>	<u>Position</u>	<u>Year</u>
University of Florida School of Pharmacy Department of Medicinal Chemistry Gainesville, Florida	Postdoctoral Research Associate  <u>Supervisor: Dr. Christopher R. McCurdy</u>	01/2017-Present
University of Mississippi School of Pharmacy Department of Biomolecular Sciences Oxford, Mississippi	Postdoctoral Research Associate  <u>Supervisor: Dr. Christopher R. McCurdy</u>	02/2015-01/2017
University of Bath Department of Pharmacy and Pharmacology, Bath, UK	Visiting Research Fellow  <u>Supervisor: Prof. Barry V. L. Potter</u>	9/2014-9/2015
Various Pharmacies in the South Western region of England	Pharmacist	9/2011-2/2015
DSM Pharmaceutical Product and Innovative Synthesis and Catalysis group DSM, Geleen, The Netherlands	Internship  <u>Supervisor: Dr. Guuske F. Busscher</u>	9/2008-8/2009

## AWARDS

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- 7/2016 National Institute on Drug Abuse travel award for the International Narcotic Research Conference
- 7/2011 Royal Society of Chemistry travel award for the RSC Residential School of Medicinal Chemistry

## AFFILIATIONS

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- 2016-present American Chemical Society (member)
- 2016-present American Association of Pharmaceutical Scientists (member)
- 2011-present Royal Society of Chemistry (member)

## PUBLICATIONS

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1. **Mottinelli, M.**; Leese, M. P.; Potter, B. V. L.; Accessing simply substituted 4-hydroxytetrahydroisoquinolines via pomeranz-fritsch-bobbitt reaction with non-activated and moderately-activated systems. *Beilstein J. Org. Chem.* **2017** (13), 1871-1878.
2. Granchi, C.; Roy, S.; **Mottinelli, M.**; Nardini, E.; Cmpinoti, F.; Tuccinardi, T.; Lanza, M.; Betti, L.; Giannaccini, G.; Lucacchini, A.; Martinelli, A.; Macchia, M.; Minutolo, F. Synthesis of sulfonamide-containing *N*-hydroxyindole-2-carboxylates as inhibitors of human lactate dehydrogenase-isoform 5. *Bioorganic and Medicinal Chemistry Letters* **2011** (21), 7331-7336.
3. Busscher, G. F.; Lefort, L.; Cremers, J. G. O.; **Mottinelli, M.**; Wiertz, R. W.; De Lange, B.; Okamura, Y.; Yusa, Y.; Matsumura, K.; Shimizu, H.; De Vries, J. G.; De Vries, A. H. M.; Efficient preparation of an *N*-aryl  $\beta$ -amino acid via asymmetric hydrogenation and direct asymmetric reductive amination en route to Ezetimibe. *Tetrahedron: asymmetry* **2010** (21), 1709-1714.

## MANUSCRIPTS IN PREPARATION

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1. Journigan, V.B.; **Mottinelli, M.**; Mesangeau, C.; Eans, S.O.; McLaughlin, J.P.; Mollereau, C.; Cutler, S.J.; McCurdy, C.R. The Discovery of Novel Mixed Opioid Agonists with Bifunctional Activity at Neuropeptide FF1 and FF2 Receptors. *Proceedings of the National Academy of Science USA* (expected submission, 2017).

## PRESENTATIONS

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- 7/2015 **Mottinelli, M.**; McCurdy, C. R.; Journigan, V. B.; Mesangeau, C.; Cutler, S. J.; Eans, S. O.; Medina, J. M.; McLaughlin, J. P.; New biphenylmethylenepiperidine derivatives as dual opioid-NPFF ligands: invitro and in vivo evaluation. International Narcotic Research Conference, Bath, UK. Poster M1.13
- 11/2017 Mottinelli, M.; Lambert, J.; McCurdy, C. R.; Deconstruction of Neuropeptide FF Receptor Ligands for Identification of Specific Pharmacophoric Requirements. American Association of Pharmaceutical Scientists National Meeting, Sand Diego, USA. Poster T2088

## PROFESSIONAL DEVELOPMENT

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2017-2018 Biomedical Scientist as Educator Certificate, University of Florida, Gainesville, Florida.  
8-12/2016 Grant Writing Class, University of Mississippi, Oxford, Mississippi.  
7/2011 RSC Residential School of Medicinal Chemistry, Loughborough, UK

## TEACHING AND MENTORING EXPERIENCE

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1/2017-present Assisting Dr. Christopher McCurdy in mentoring graduate students, University of Florida.  
9/2016 Substitutions for two lectures of Medical Microbiology, University of Mississippi, Oxford, Mississippi.  
2015-2016 Assisting Dr. Christopher McCurdy in mentoring graduate students, University of Mississippi.  
2009-2012 Demonstrator (equivalent to graduate teaching assistant), University of Bath, Bath, UK.

## SKILLS

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- **Synthetic medicinal chemistry**, including: ligand- and structure- based drug design, lead optimization, SAR analysis, synthetic route design and optimization, scale up chemistry (up to 100g).
- **Multidisciplinary network management**: assisted in maintaining live communications between chemistry, pharmacokinetic, in vitro pharmacology and in vivo pharmacology groups and with external collaborators.
- **Assembling Laboratories**: assisted in set up of chemistry and *in vitro* pharmacology R&D labs at the University of Florida.
- **Languages**: Italian (native), English (fluent), German (basic).

## REFERENCES

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**Christopher R. McCurdy, Ph.D., F.A.A.P.S.**  
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Director, UF Translational Drug Development Core  
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**Jay P. McLaughlin, Ph.D.**

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