

Curriculum Vitae
Maryam Binti Mohamed Hanafiah

**Personal
Details**

E-mail: m.hanafiah@nekoai.com

Date of Birth: 15 August 1985

Languages spoken: English (fluent), Malay (fluent), French (intermediate)

Education

October 2008 - October 2009 **School of Pharmacy, University of London**

MSc in Pharmacognosy

Modules:

- Pharmaceutical analysis and drug discovery
- Therapeutic uses of plants
- Methods in pharmacognosy
- Therapeutic natural products and ethnopharmacology

Research project: Evaluation of natural products as anti-plasmid agents.

I created extracts from aerial parts of four *Plectranthus* species used in traditional African medicine. I tested these extracts along with Evodia fruit extracts, cannabidiol, gambogic acid and a monoterpene compound derived from *H. olympicum* against MRSA, VRE and *E. coli* to determine anti-microbial and anti-plasmid activity.

July 2004 - July 2008 **Nanyang Technological University**

BSc (Hons) in Biological Sciences

Final year research project: The mode of action of defensins: role of oligomerisation

I modelled human defensin molecules and subsequently performed molecular simulations and energy calculations on the models. I visualised the molecular models using PyMol. PyMol was also used to generate possible molecular conformations from crystal structures of human defensin molecules. I used APBS to determine the dimer conformation with the lowest static binding free energy and to visualise the electrostatic surface potentials of the dimers. I used AMBER to simulate dimer formation and to determine the conformation with the lowest dynamic free binding energy.

**Work
Experience**

7 January 2010 – present **Medicines and Healthcare products Regulatory Agency**
Information Processing Unit
Scientific Administrator

Duties include:

- Validating Type IB Minor and Type II Major variations to drug licences authorised nationally and via the Mutual Recognition Procedure.
- Ensuring applications and documentation comply with current EU regulations and MHRA guidelines.
- Liaising with pharmaceutical companies and departments within the agency to ensure that the fees are paid and the correct documentation is submitted.

- Accurately processing case folders within tight deadlines.
- Editing and indexing product licence dossier documentation, such as the Summary of Product Characteristics, to comply with EU guidelines and Special Mail 5.

23 May 2010
– present

Horniman Museum and Gardens

Learning Programme

Engage Volunteer

Duties include:

- Assisting visitors in the Gardens and the Nature Base and with the Object Handling Desk.
- Facilitating specimen handling, and teaching visitors about specimens at the Object Handling Desk.

Other activities:

- Gave tours of the Wildlife Garden during the World City – Music Village Festival held on 4 July 2010.

July-August
2008

Viscion Media (Singapore)

BeautyBlackBook and Smitten Magazine

Beauty Intern

Duties include:

- Supporting the editor and editorial team.
- Writing reviews of beauty and non-beauty related products and services.
- Writing summaries and reports of daily world headlines and other news items for a women's newspaper.
- Representing the magazine at events and product launches.
- Conducting interviews for articles.
- Administrative duties: handling telephone calls, reception duty, liaising with external companies, handling incoming and outgoing mail, data entry.

May-August
2007

Royal Botanic Gardens, Kew

Centre for Economic Botany (Sustainable Uses Group)

Intern

Duties include:

- Organising photographs for a Chinese medicines book.
- Digitising *Cinchona* museum specimens by photographing and editing the images in Photoshop for a project on the history of *Cinchona*.
- Updating a database with historical articles and documents about *Cinchona* and cross-referencing them with specimens and images in the collection.
- Photographing and assisting with other collections: the Japanese paper collection, the *Aloe* collection, a collection of wooden toys.
- Administrative tasks such as temperature recording.
- Updating the Ethnomedica database.

August 2004-
January 2006

Kawai Music School

Piano teacher

I taught piano and music theory to children.

**January
2002-
November
2003**

Singapore Cheshire Home
Volunteer Befriender

I was a companion to severely disabled adult residents.

Duties include:

- Assisting with daily activities, including meals.
- Assisting residents on day excursions.
- Fundraising.
- Selling craft items made by the residents.

**January-
December
2003**

Pertapis Orphanage
Volunteer (Volunteer Committee Member)

I organised and coordinated the repair and installation of second-hand computers at the orphanage.

**January-
December
2002**

Kandang Kerbau Women's and Children's Hospital
Children's playroom volunteer

Duties include:

- Supervising and assisting children in the playroom.
- Facilitating activities at the Arts & Crafts corner.
- Making Christmas cards for children in intensive care.

**Conferences
Attended**

6 March 2009

Royal Pharmaceutical Society

Traditional herbal medicines: opportunities and challenges in a changing regulatory environment

Biology Skills

- Natural product extraction, aseptic technique, bacterial plating, MIC testing, immunoassays, using spectrophotometers and gel electrophoresis methods.
- Analytical spectroscopy, NMR, PCR theory.
- Bioinformatics tools: PyMol, VMD, RasMol, AMBER, APBS, TreView, BLAST.
- Statistical tools: R, SPSS.

**Computer
Skills**

- Web development: HTML, CSS, PHP, Javascript, Dreamweaver.
- Linux/Unix, Bash.
- MS Office, Documentum (CMS).
- Adobe: Photoshop, Premiere, Pagemaker, InDesign.
- Typing speed: 120 wpm.

CRB Check

I have a clean enhanced CRB check dated 21 April 2010.

Interests

My interests include ethnobotany, plants, music, art, cosmetics, sewing and cooking. I run a website from which I sell my hand-made craft items at www.pandashop.co.uk. My personal portfolio can be seen on my website at www.nekoai.com.